

**Fig. 1**  
**(Prior Art)**



Account Identifier (acctID) (216)	Account Information (240)	Public Key Information (218)
#-####-####-### (281)	Customer - specific information Account - specific information	PuK
#-####-####-### (282)	Customer - specific information Account - specific information	PuK
#-####-####-### (283)	Account - specific information	PuK
#-####-####-### (284)	Account - specific information	PuK
#-####-####-### (285)	Account - specific information	PuK
...	...	...
#-####-####-### (288)	Customer - specific information Account - specific information	PuK <sub>m</sub>

Fig. 2a

Account Identifier (acctID) (216)	Account Information (240)	Public Key Information (218)	Device Profile Information (270)
#-###-###-###-### (281)	Customer - specific information Account - specific information	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-###-###-###-### (282)	Customer - specific information Account - specific information	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-###-###-###-### (283)	Account - specific information	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-###-###-###-### (284)	Account - specific information	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-###-###-###-### (285)	Account - specific information	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-###-###-###-### (286)	Account - specific information	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-###-###-###-### (287)	Account - specific information	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-###-###-###-### (288)	Customer - specific information Account - specific information	PuK m	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

Fig. 2b

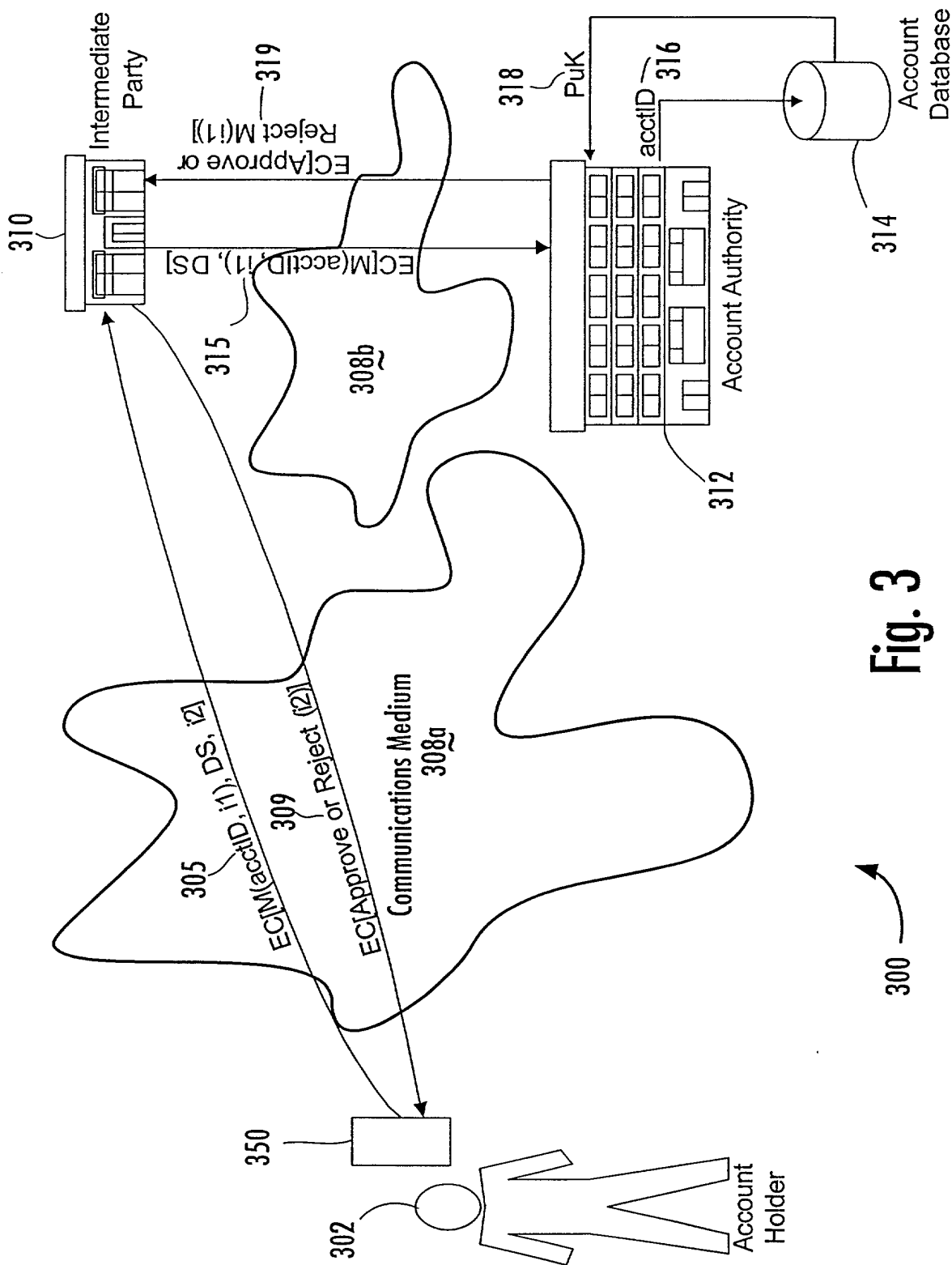
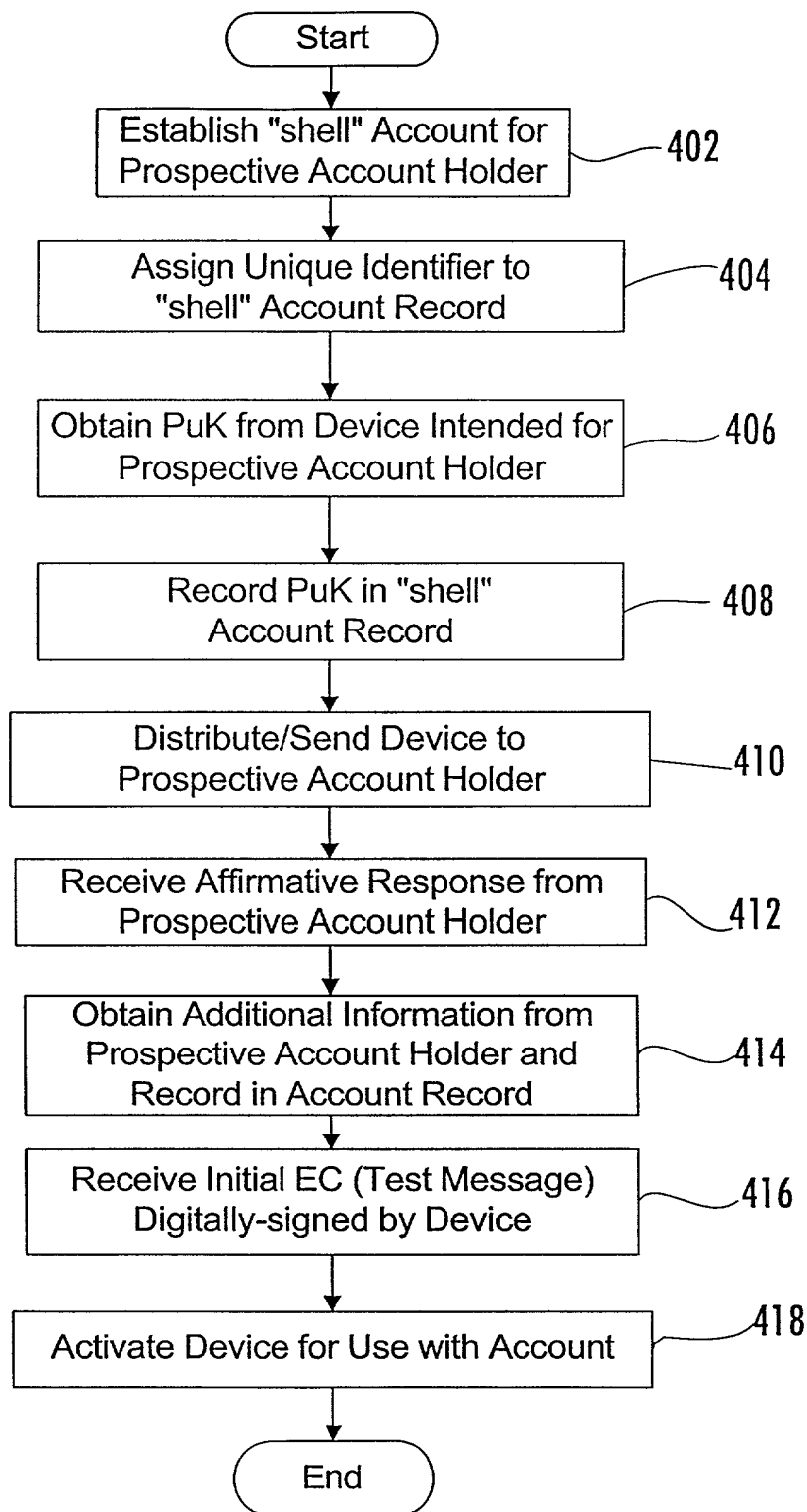
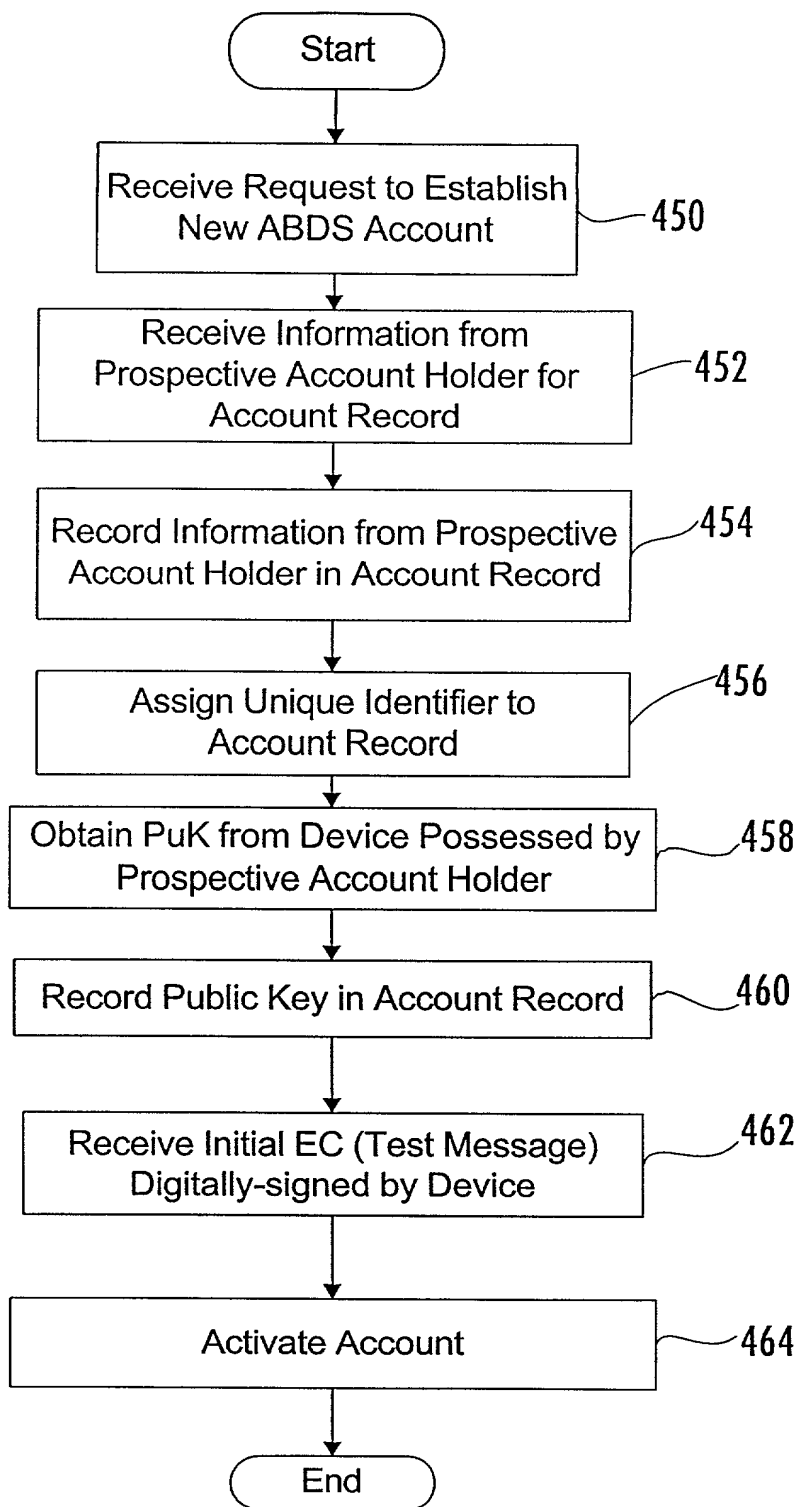


Fig. 3



**Fig. 4a**



**Fig. 4b**

Fig. 5a

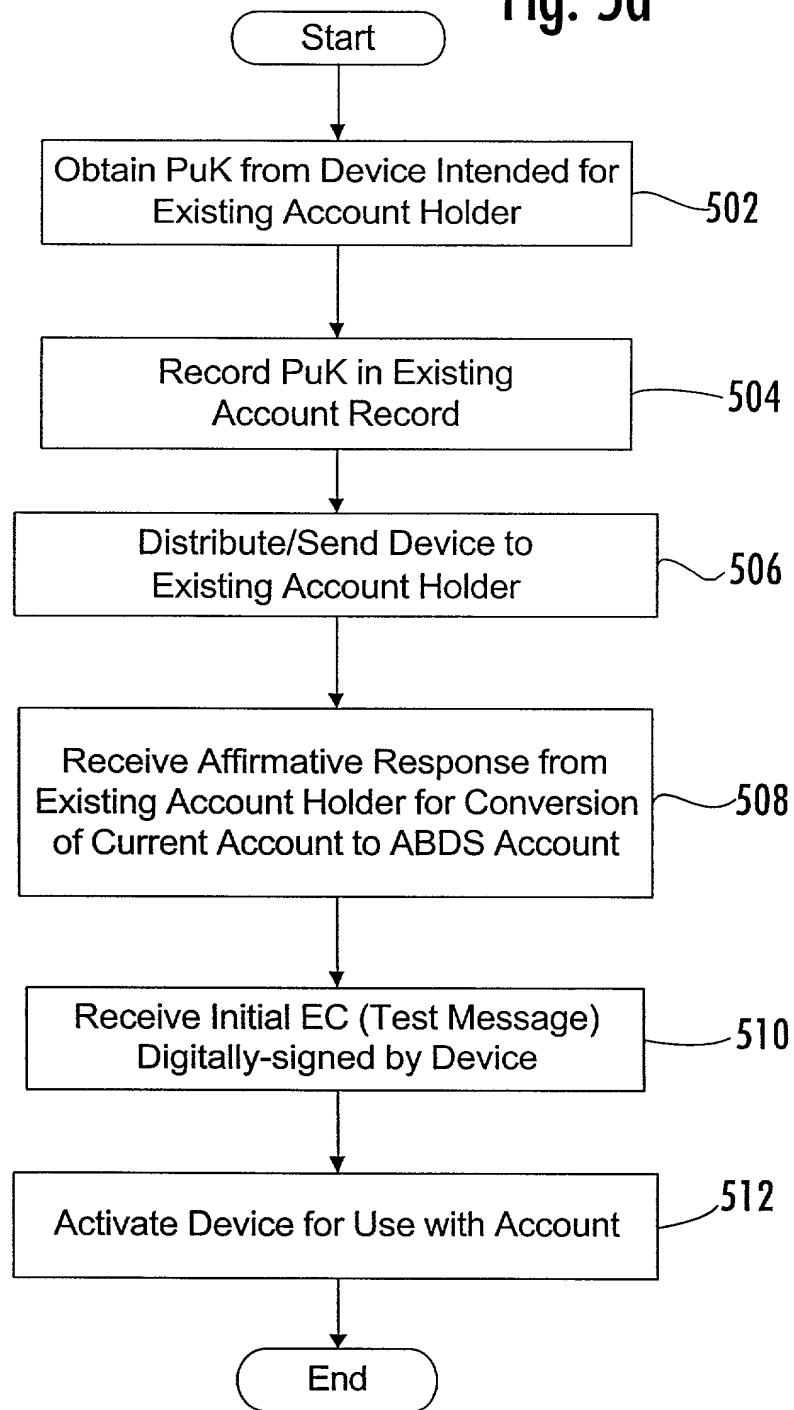
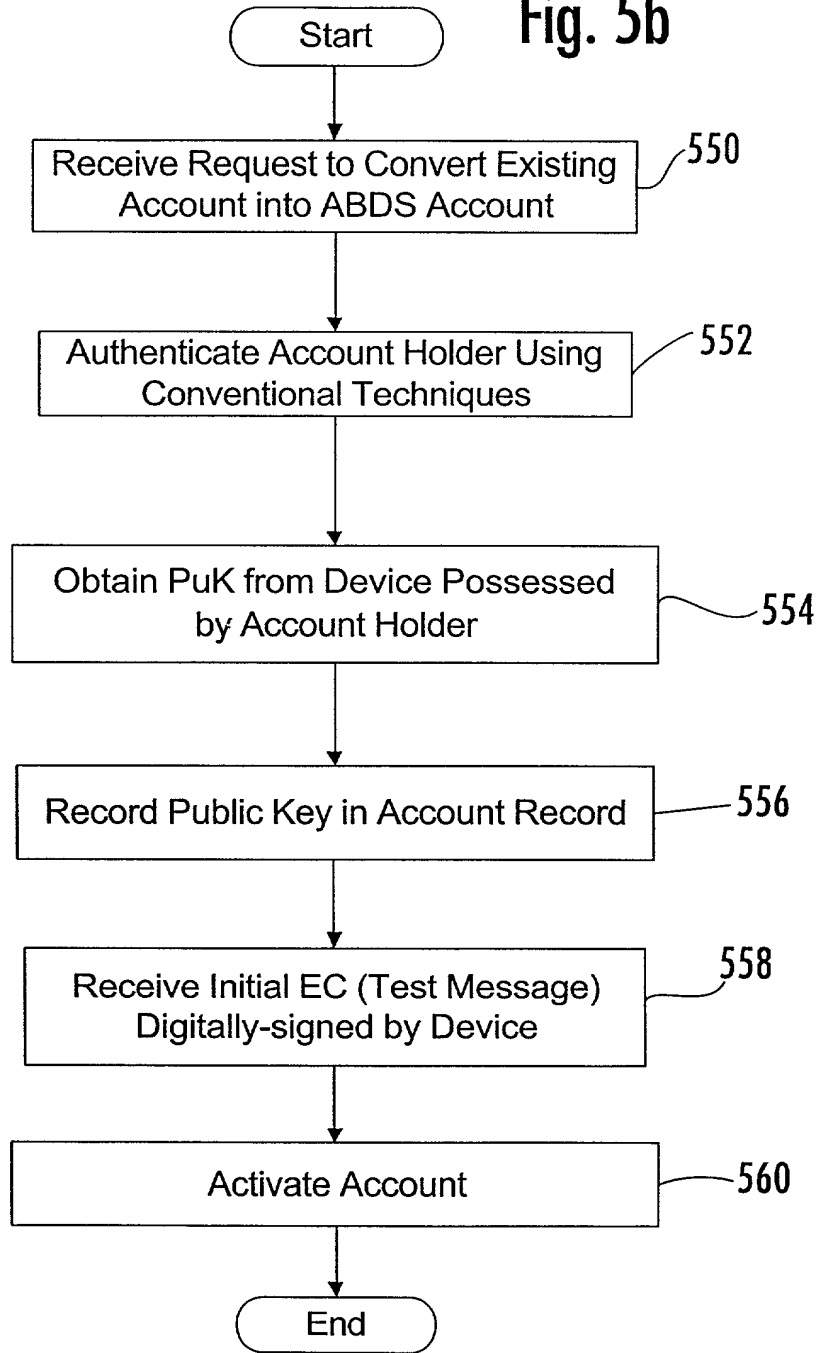




Fig. 5b



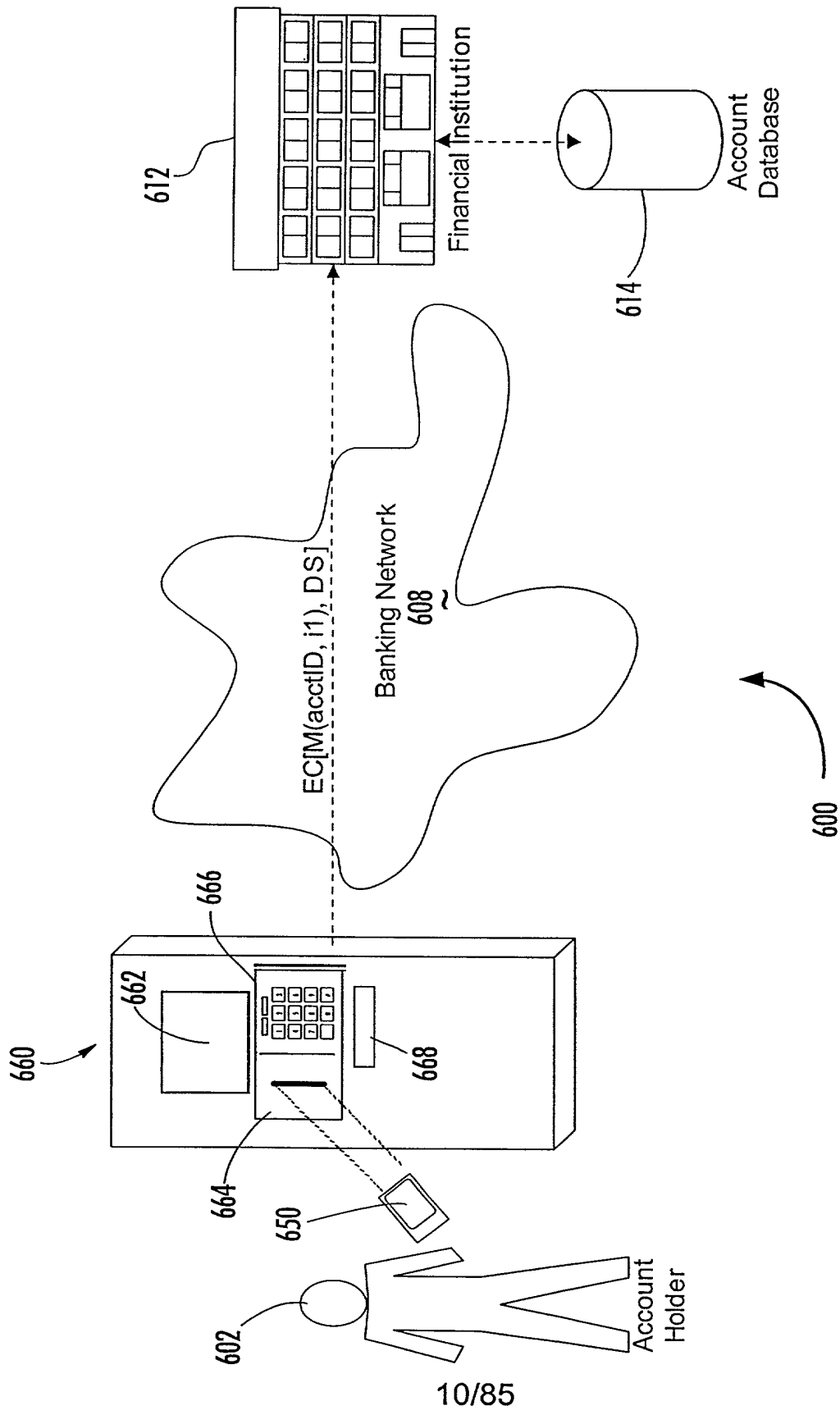
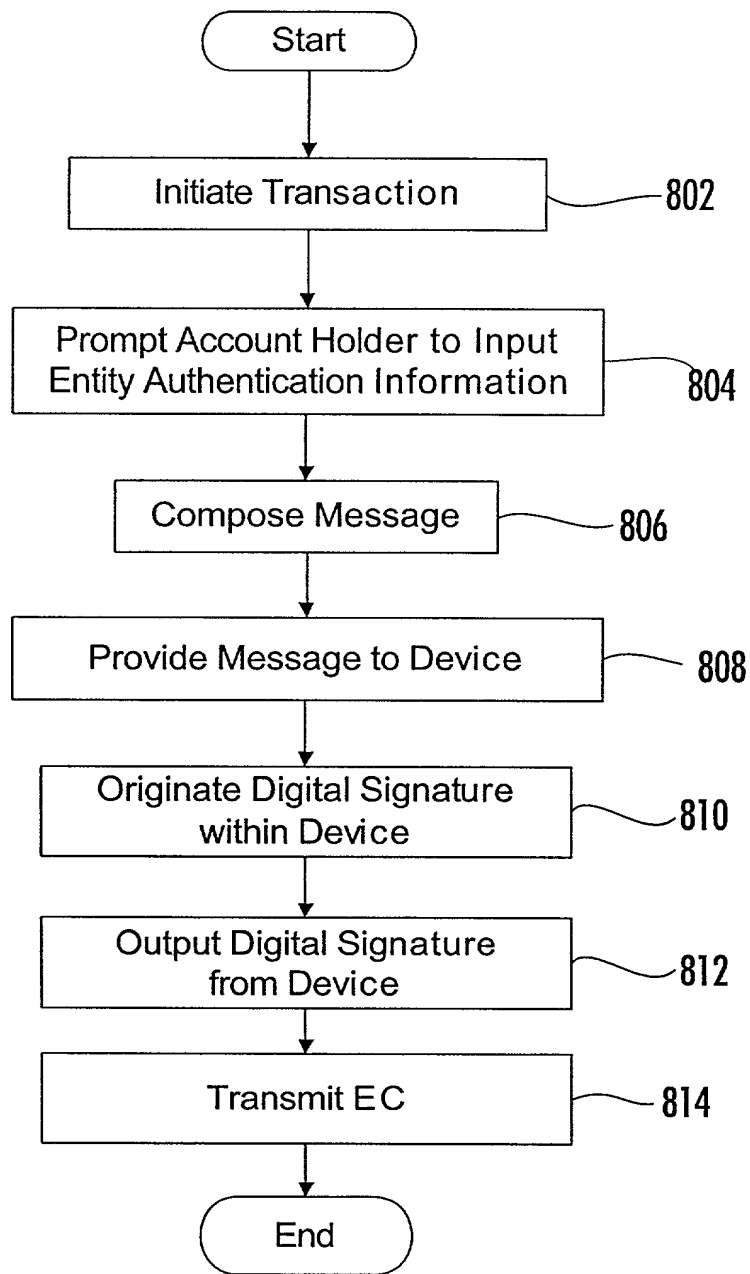


Fig. 6

<u>Account Identifier</u> (acctID) (716)	<u>Account Information</u> (740)		<u>Pub lic Key</u> Information (718)	<u>Device Profile</u> Information (770)
	<u>Customer</u> -Specific (742)	<u>Account</u> -Specific (744)		
#-####-####-###	Name Address SSN/Tax-ID number etc.	Account Balance Available Credit Current Statement Associated Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Address SSN/Tax-ID number etc.	Account Balance Available Credit Current Statement Associated Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-####-####-###	Name Address SSN/Tax-ID number etc.	Account Balance Available Credit Current Statement Associated Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

614

Fig. 7



**Fig. 8**

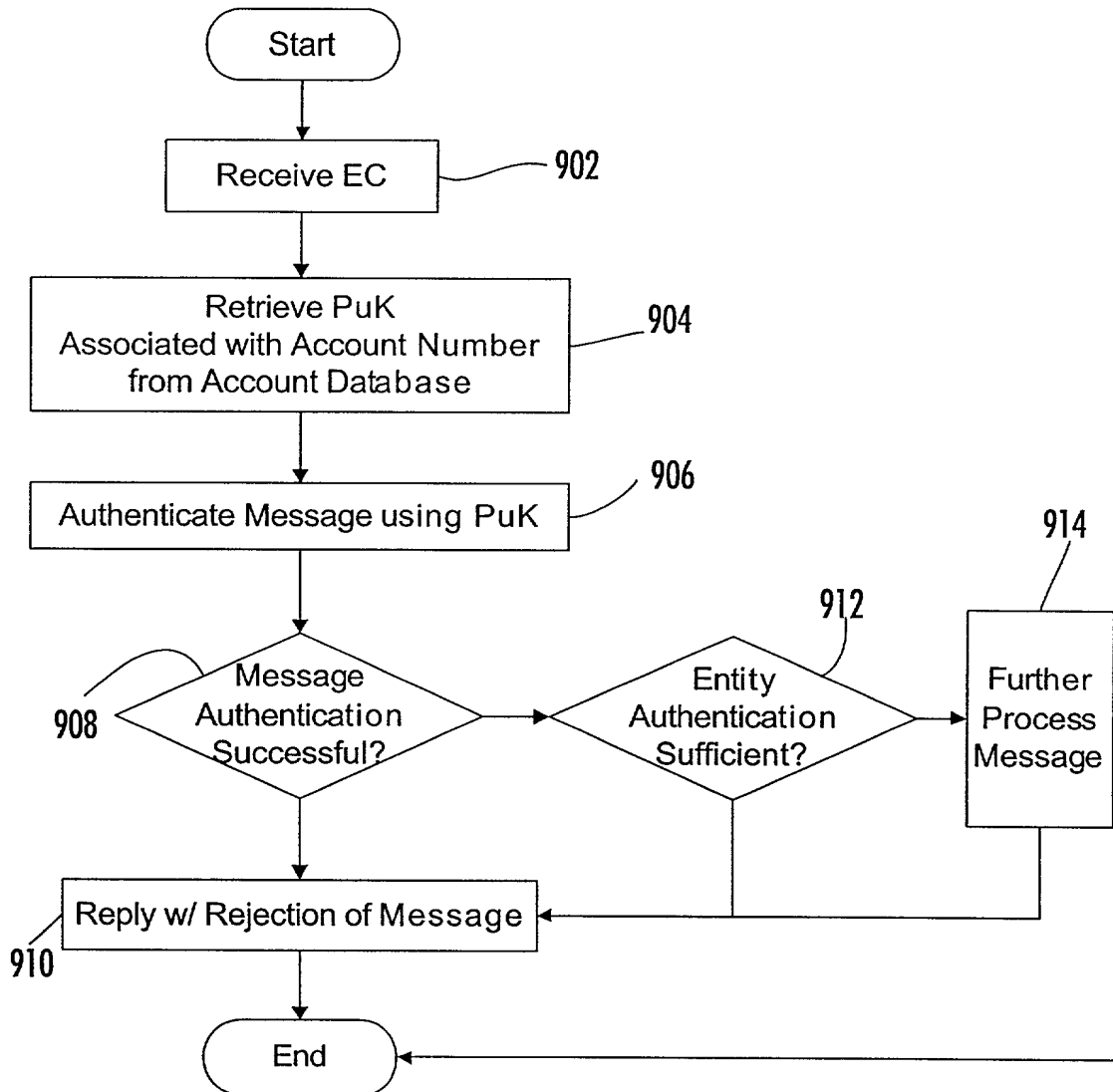


Fig. 9

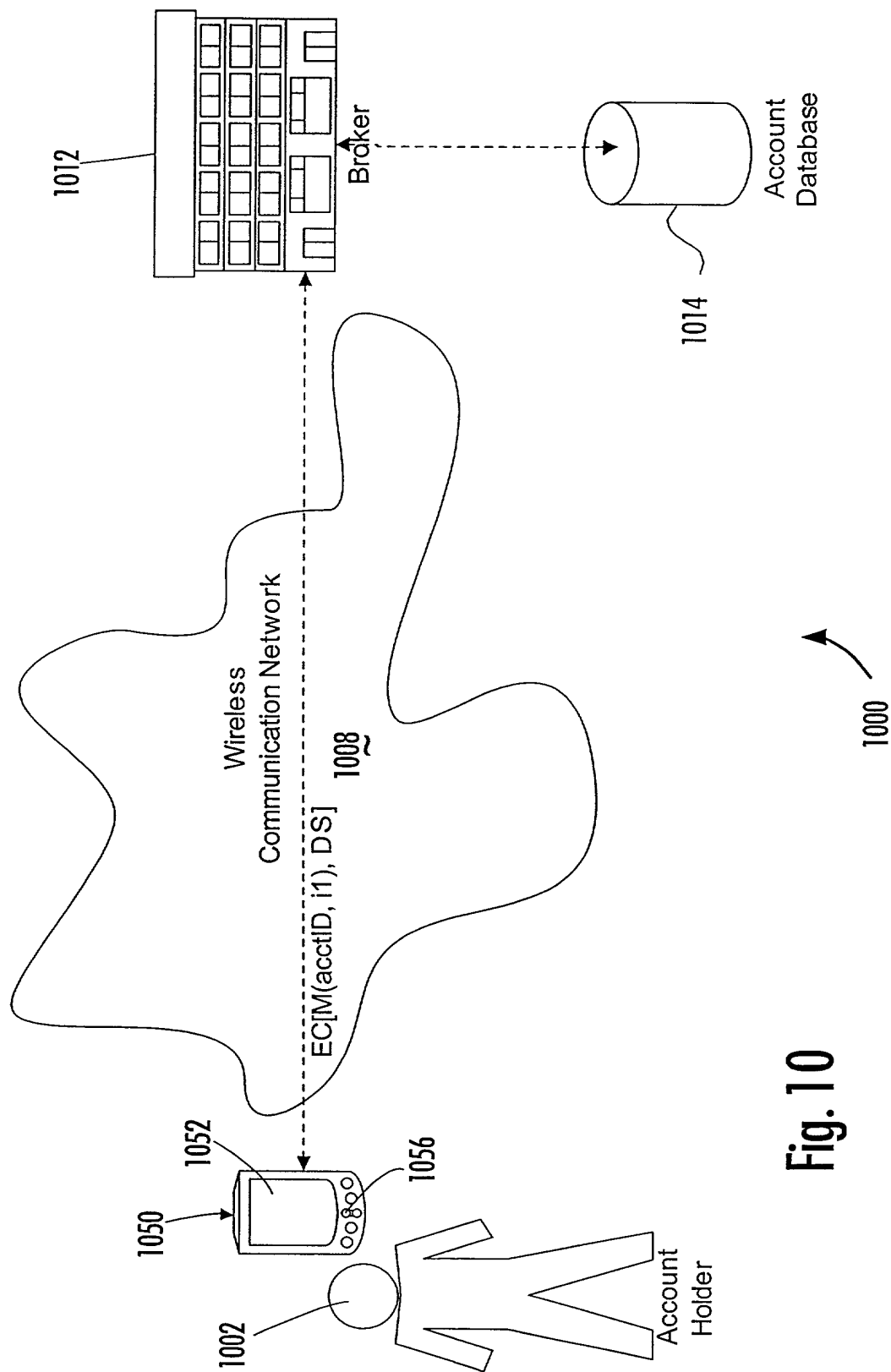
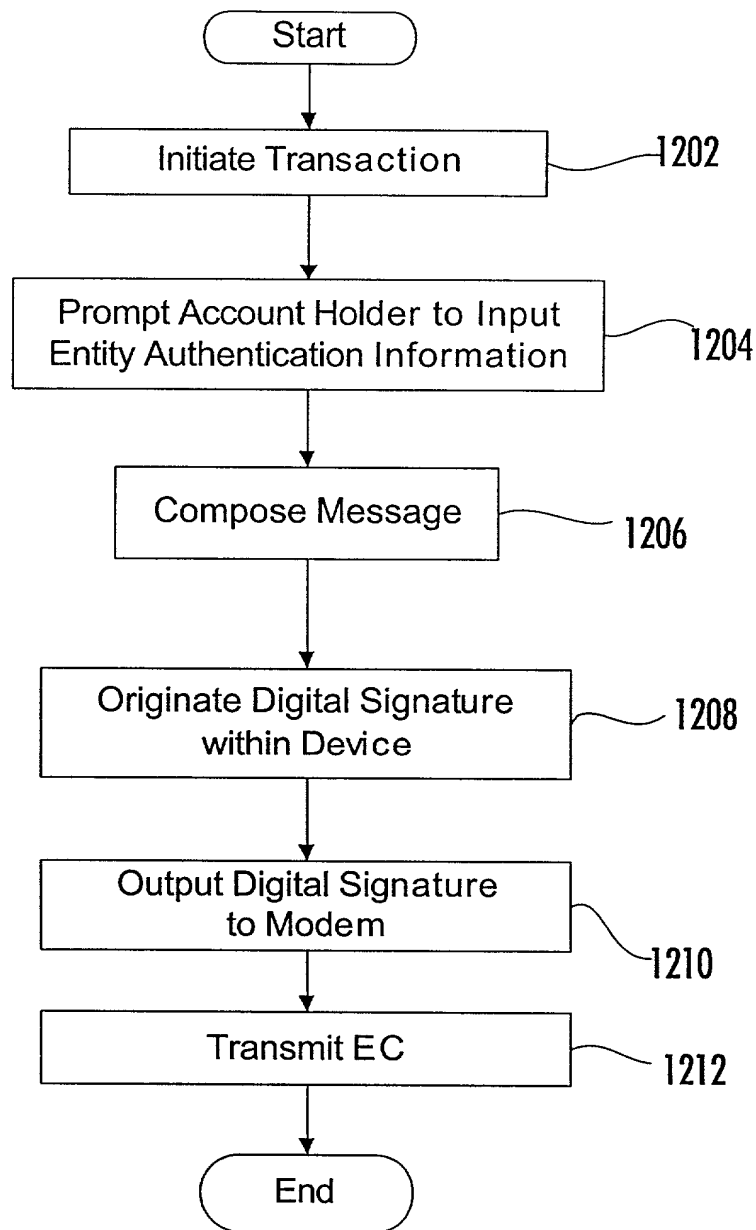


Fig. 10

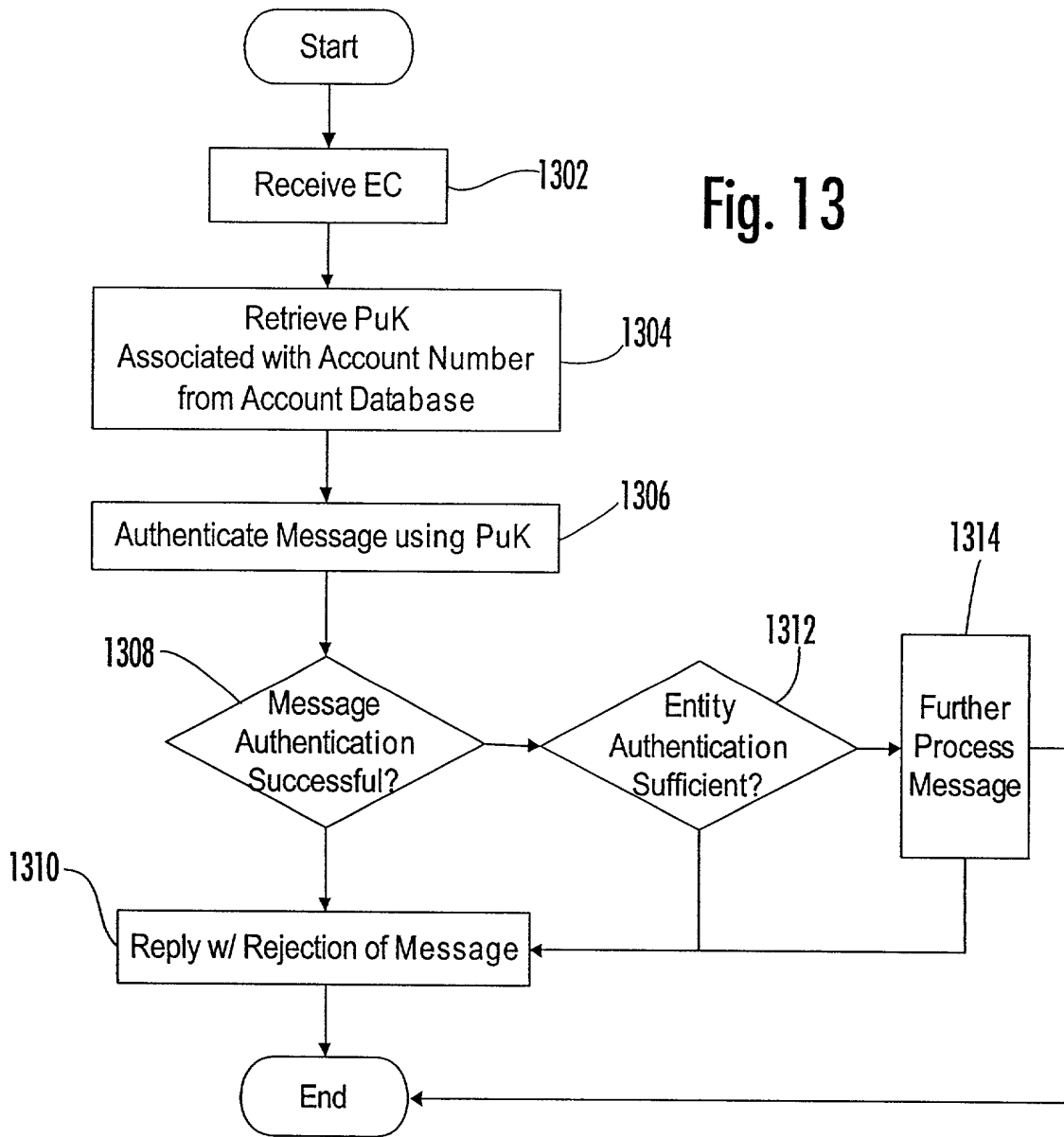
Account Identifier (acctID) (1116)	Account Information (1140)		Public Key Information (1118)	Device Profile Information (1170)
	Customer -Specific (1142)	Account -Specific (1144)		
#-####-####-###	Name Address SSN/Tax-ID number etc.	Account Status Account Balance Available Credit Asset Holdings Pending Transactions Capital Gains Associated Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Address SSN/Tax-ID number etc.	Account Status Account Balance Available Credit Asset Holdings Pending Transactions Capital Gains Associated Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-####-####-###	Name Address SSN/Tax-ID number etc.	Account Status Account Balance Available Credit Asset Holdings Pending Transactions Capital Gains Associated Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

Fig. 11



**Fig. 12**





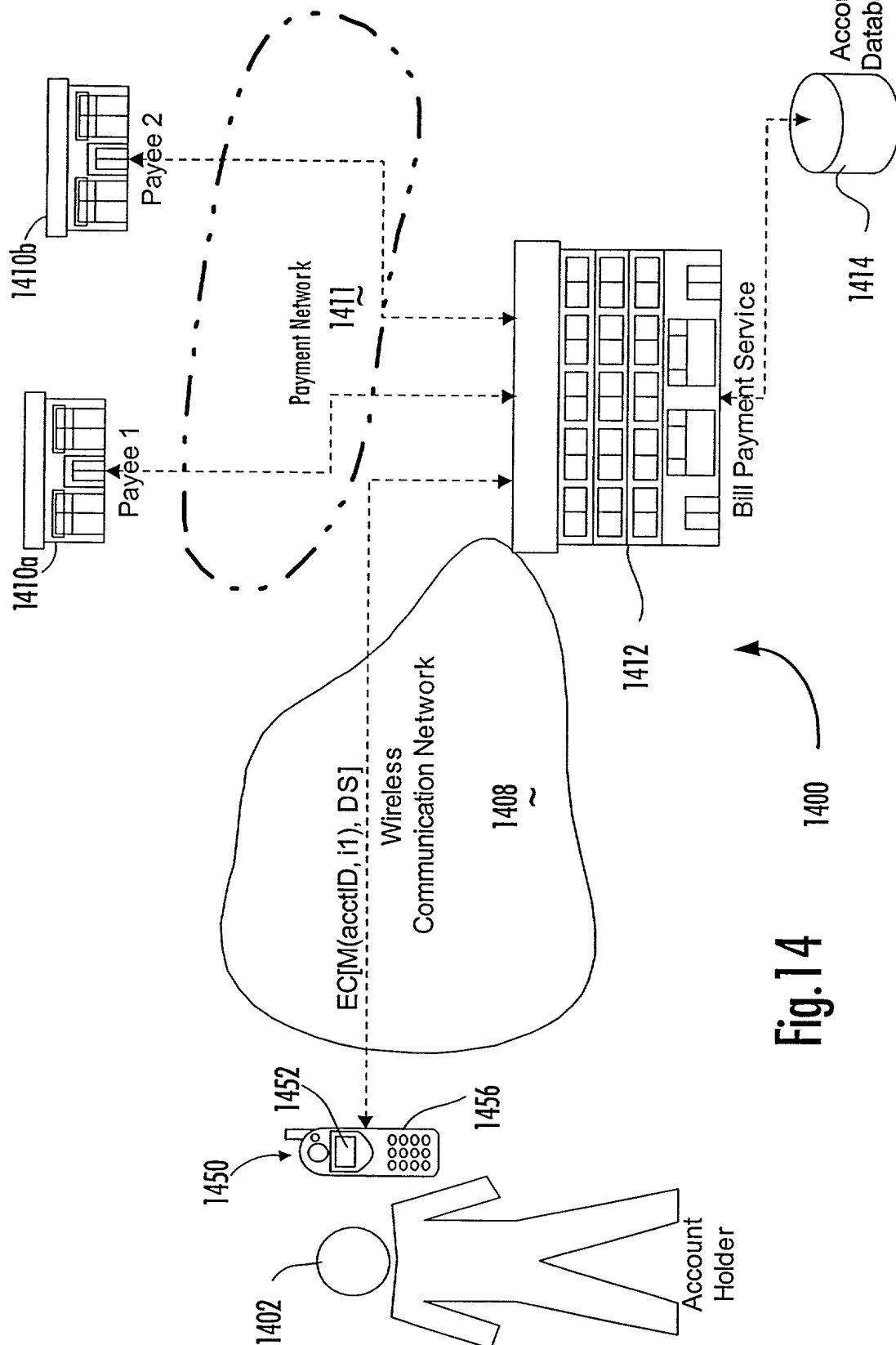
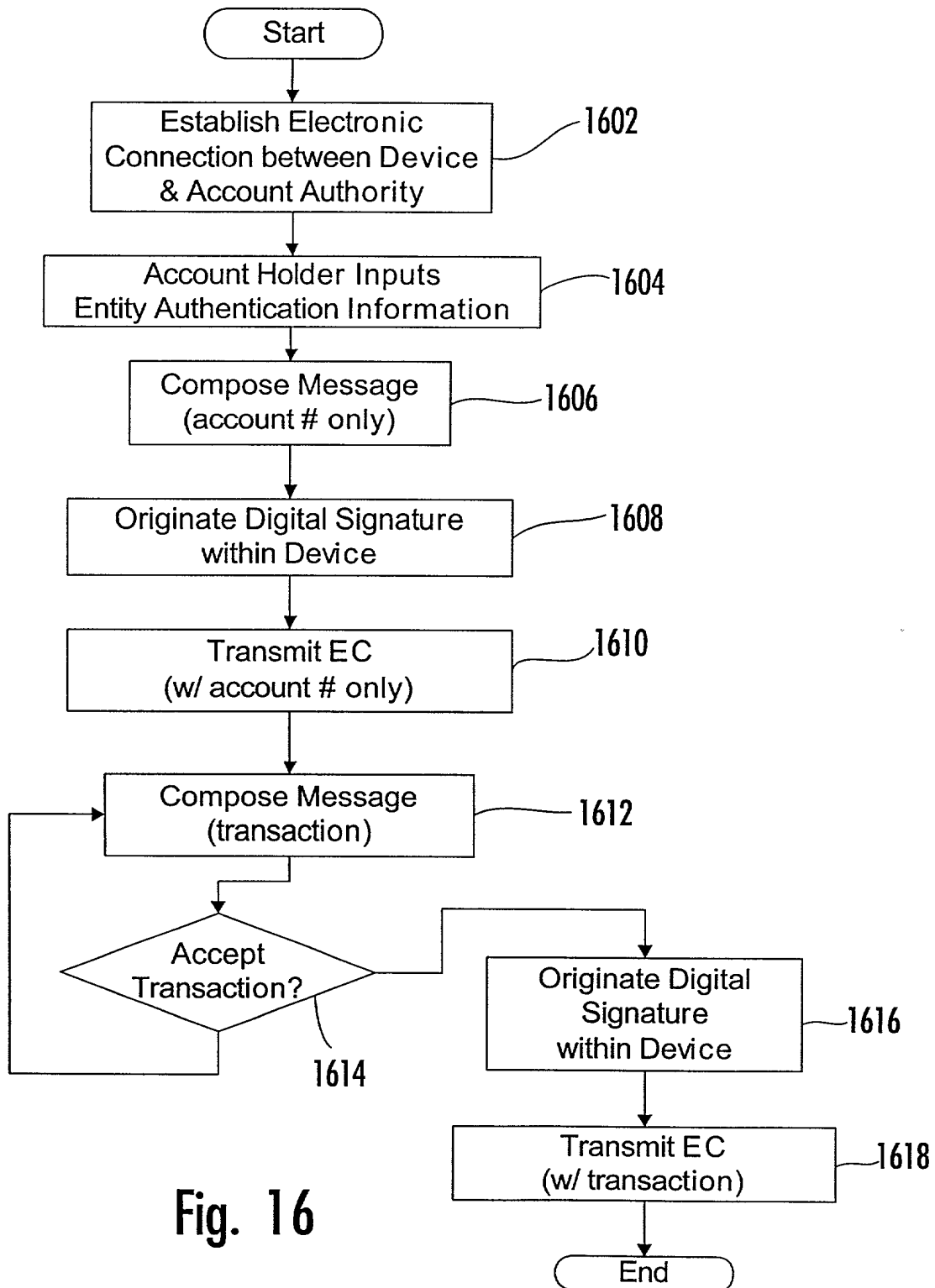


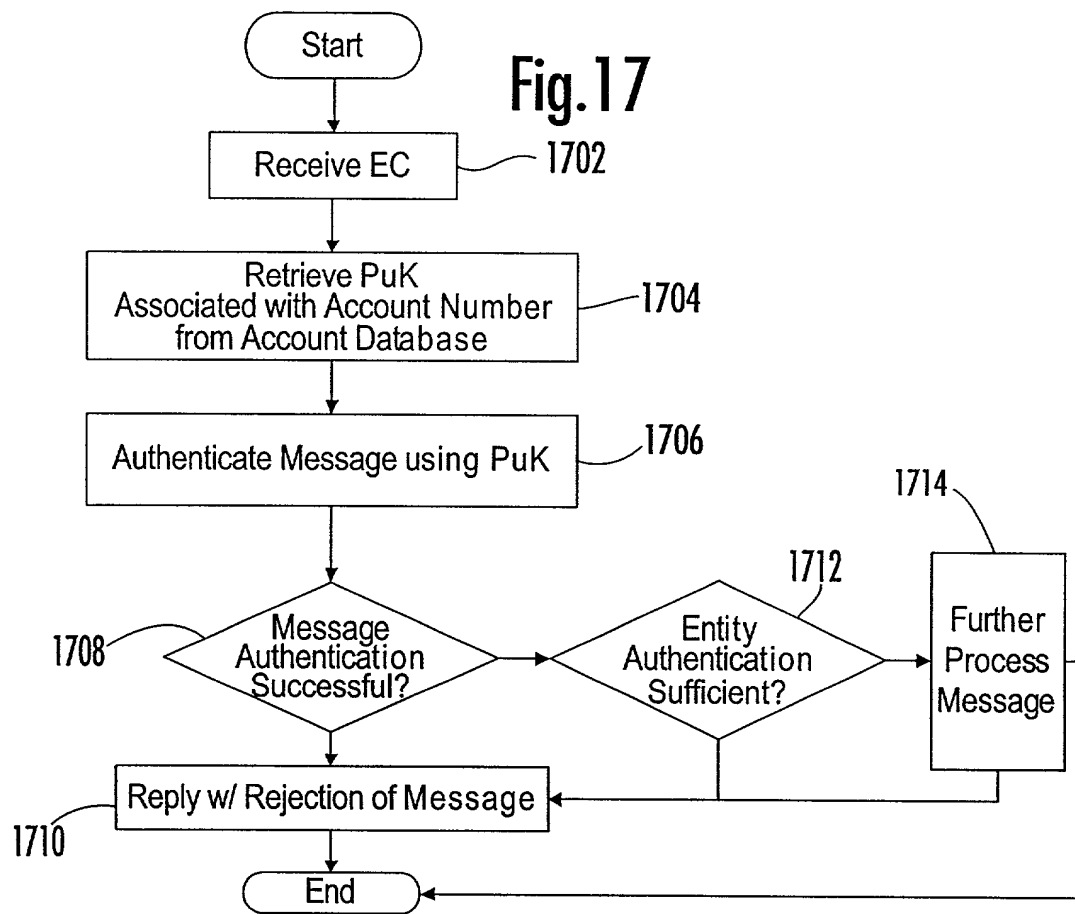
Fig. 14

Account Identifier (acctID) (1516)	Account Information (1540)		Public Key Information (1518)	Device Profile Information (1570)
	Customer -Specific (1542)	Account -Specific (1544)		
#-###-####-###	Name Address SSN/Tax - ID number etc.	List of Payment Accounts & Account Balances Credit Card Number(s) Available Credit Current Statement Status Report Registered Payees - (Cust. Acct. #, - Billing Address, - Current Billing Information) etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-###-####-###	Name Address SSN/Tax - ID number etc.	List of Payment Accounts & Account Balances Credit Card Number(s) Available Credit Current Statement Status Report Registered Payees - (Cust. Acct. #, - Billing Address, - Current Billing Information) etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

Fig. 1



**Fig. 16**



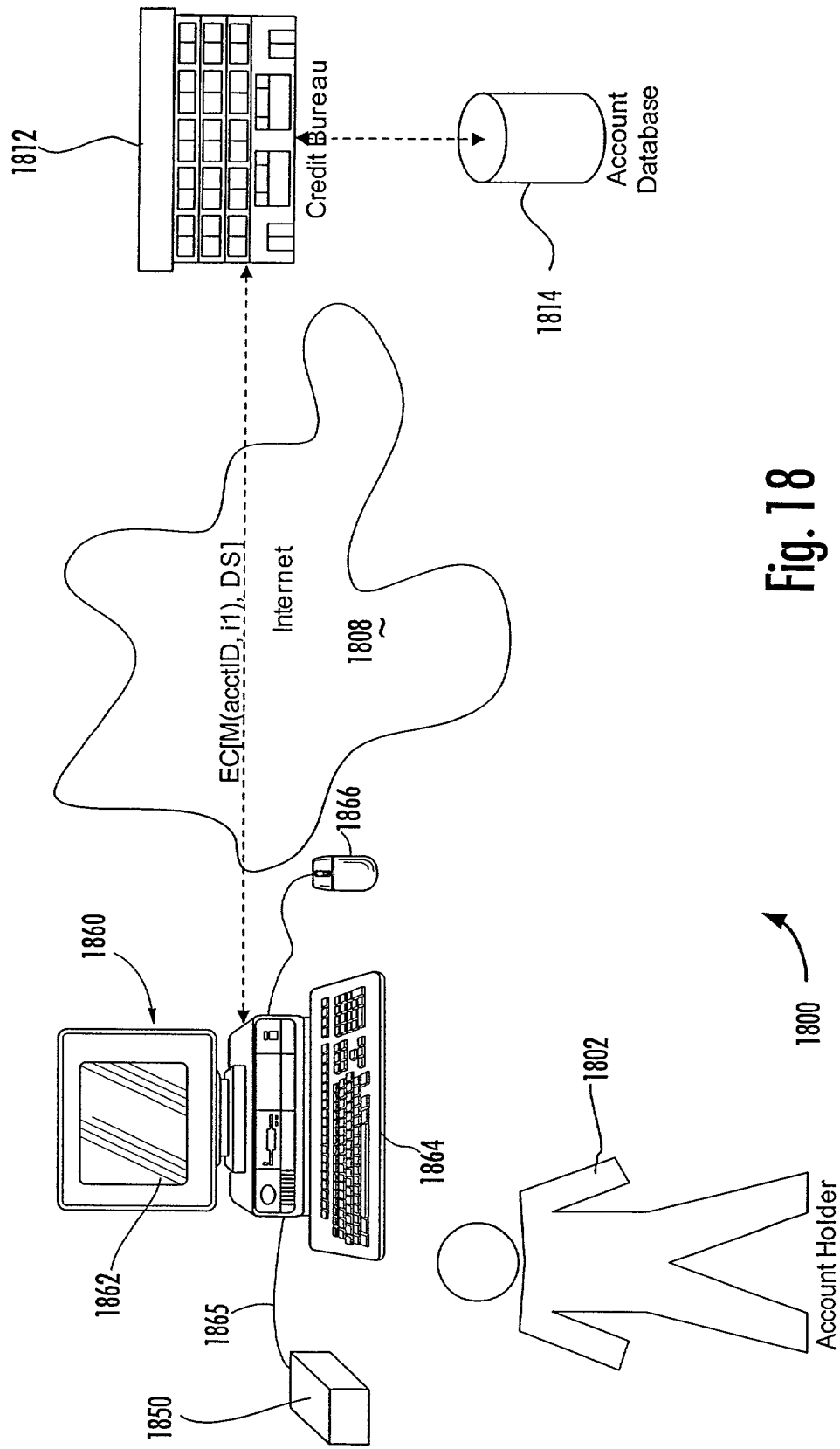
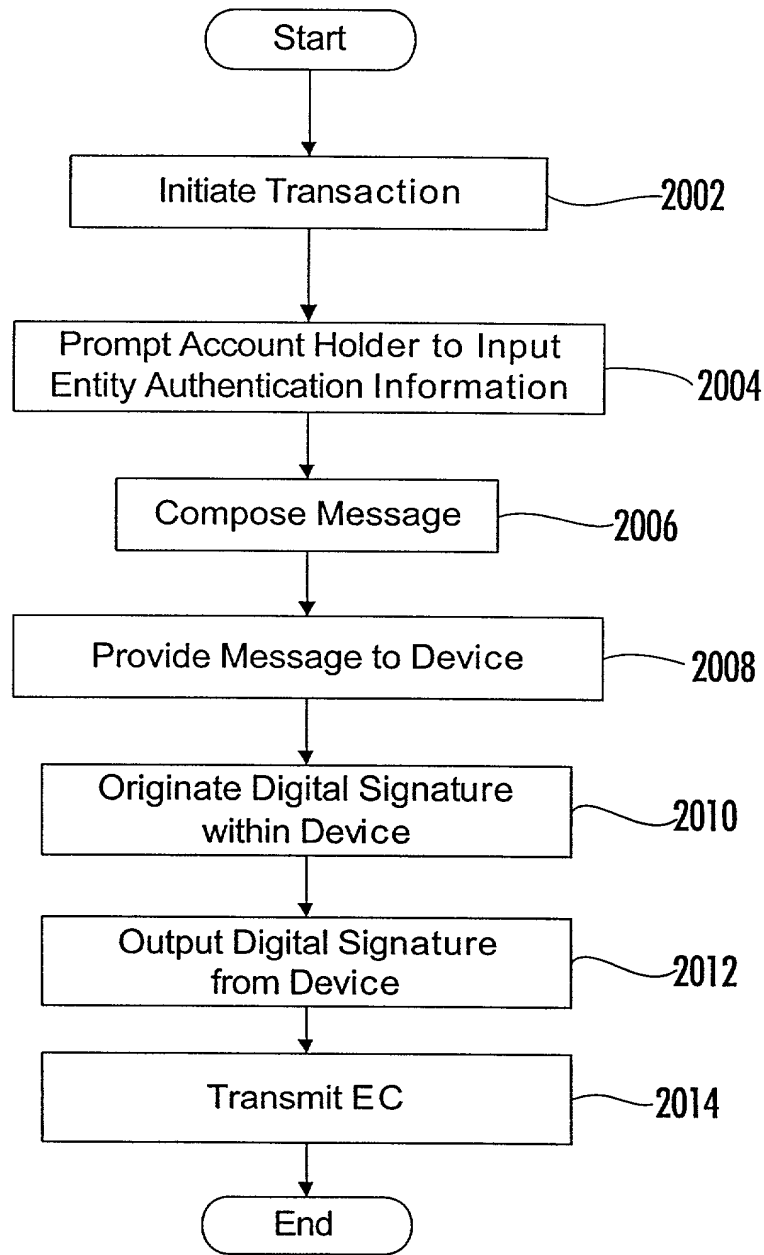


Fig. 18

Account Identifier (acctID) (1916)	Account Information (1940)		Public Key Information (1918)	Device Profile Information (1970)
	Customer -Specific (1942)	Account-Specific (1944)		
#-####-####-###	Name Address SSN/Tax-ID number etc.	List of Accounts Payment History Past Due Amount Total Debt Credit Score etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Address SSN/Tax-ID number etc.	List of Accounts Payment History Past Due Amount Total Debt Credit Score etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-####-####-###	Name Address SSN/Tax-ID number etc.	List of Accounts Payment History Past Due Amount Total Debt Credit Score etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

1814

Fig. 19



**Fig. 20**



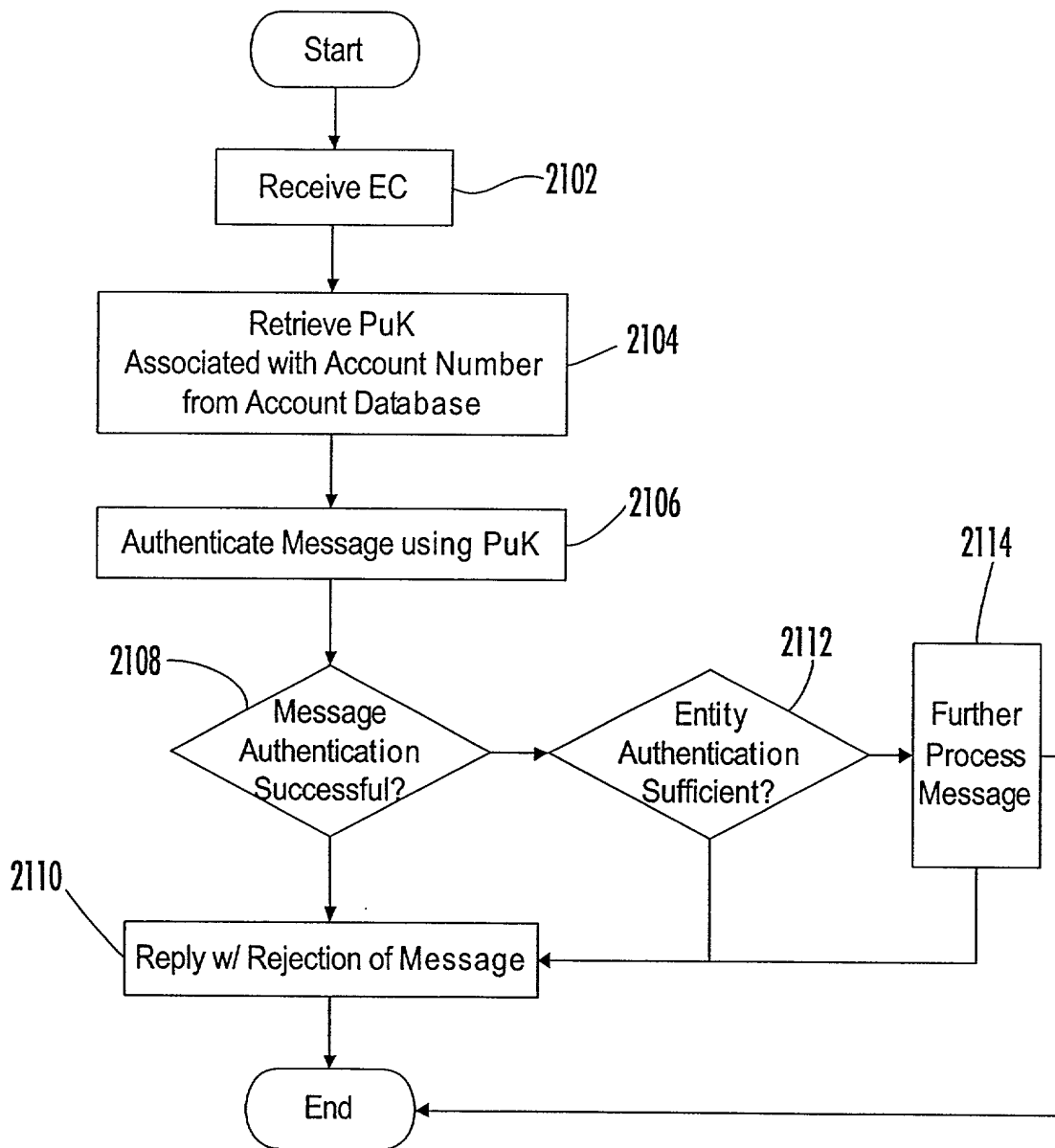


Fig. 21

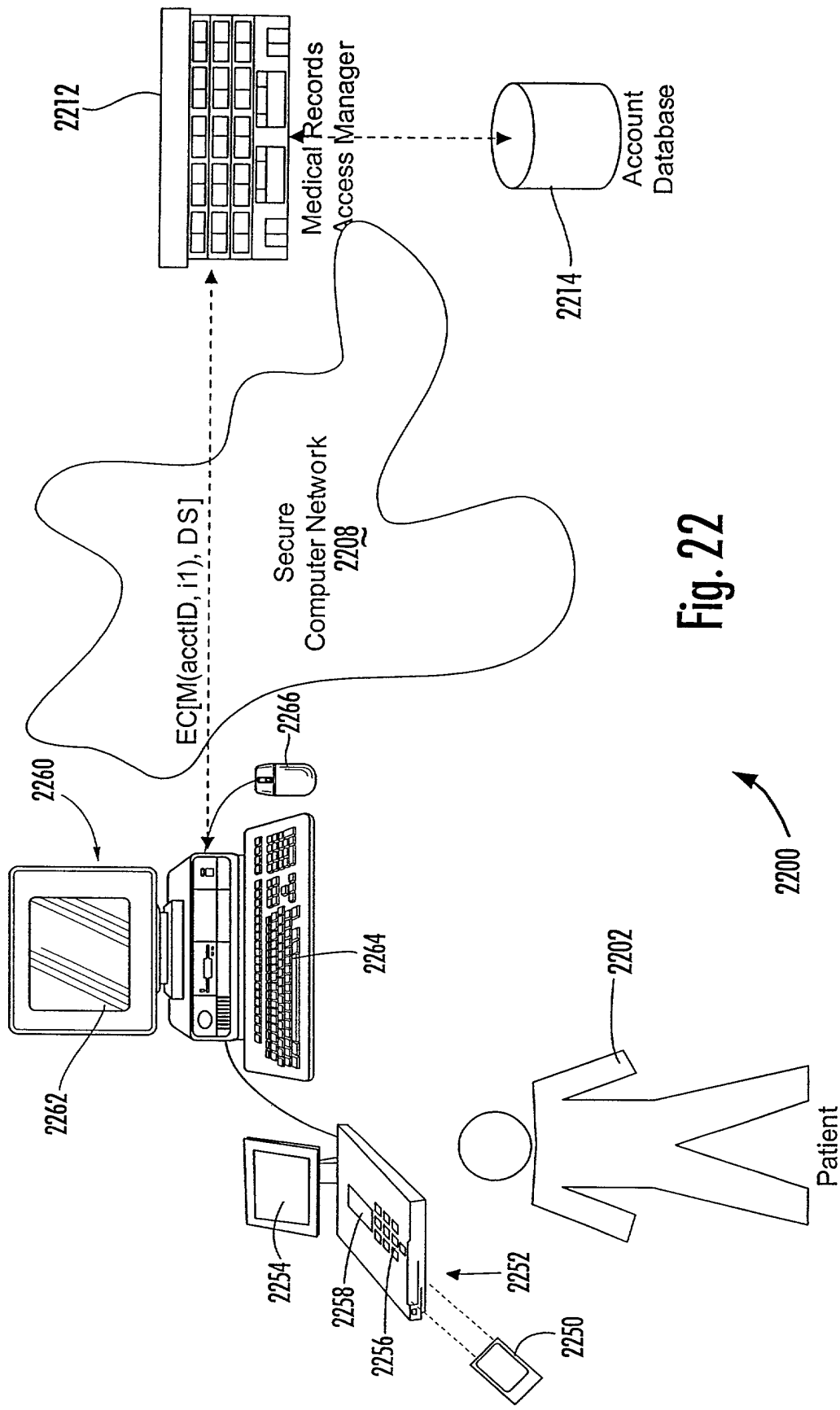
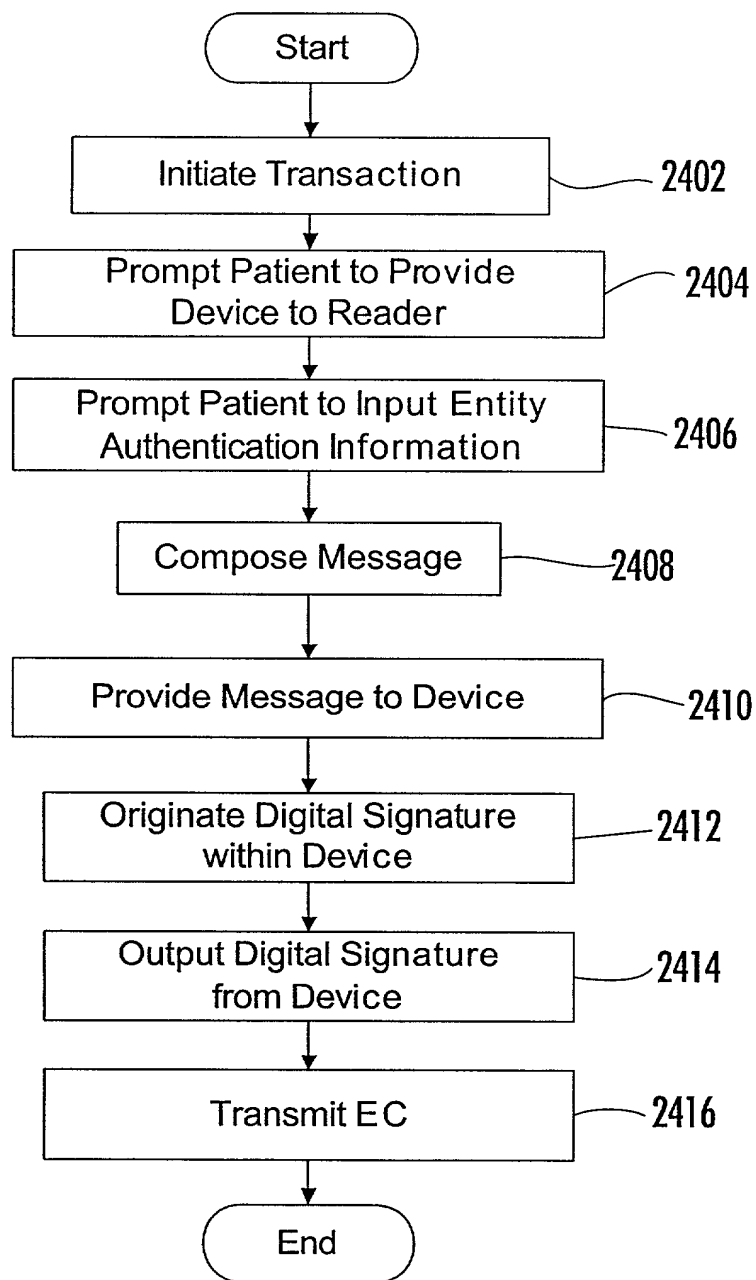


Fig. 22

Account Identifier (actID) (2316)	Account Information (2340)		Public Key Information (2318)	Device Profile Information (2370)
	Customer -Specific (2342)	Account -Specific (2344)		
#-###-####-###	Name Address SSN/Tax - ID number etc.	Current list of doctors Insurance information Medical profile and history Known allergies Major medical conditions Organ donor information etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-###-####-###	Name Address SSN/Tax - ID number etc.	Current list of doctors Insurance information Medical profile and history Known allergies Major medical conditions Organ donor information etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-###-####-###	Name Address SSN/Tax - ID number etc.	Current list of doctors Insurance information Medical profile and history Known allergies Major medical conditions Organ donor information etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

Fig. 23

Fig. 24



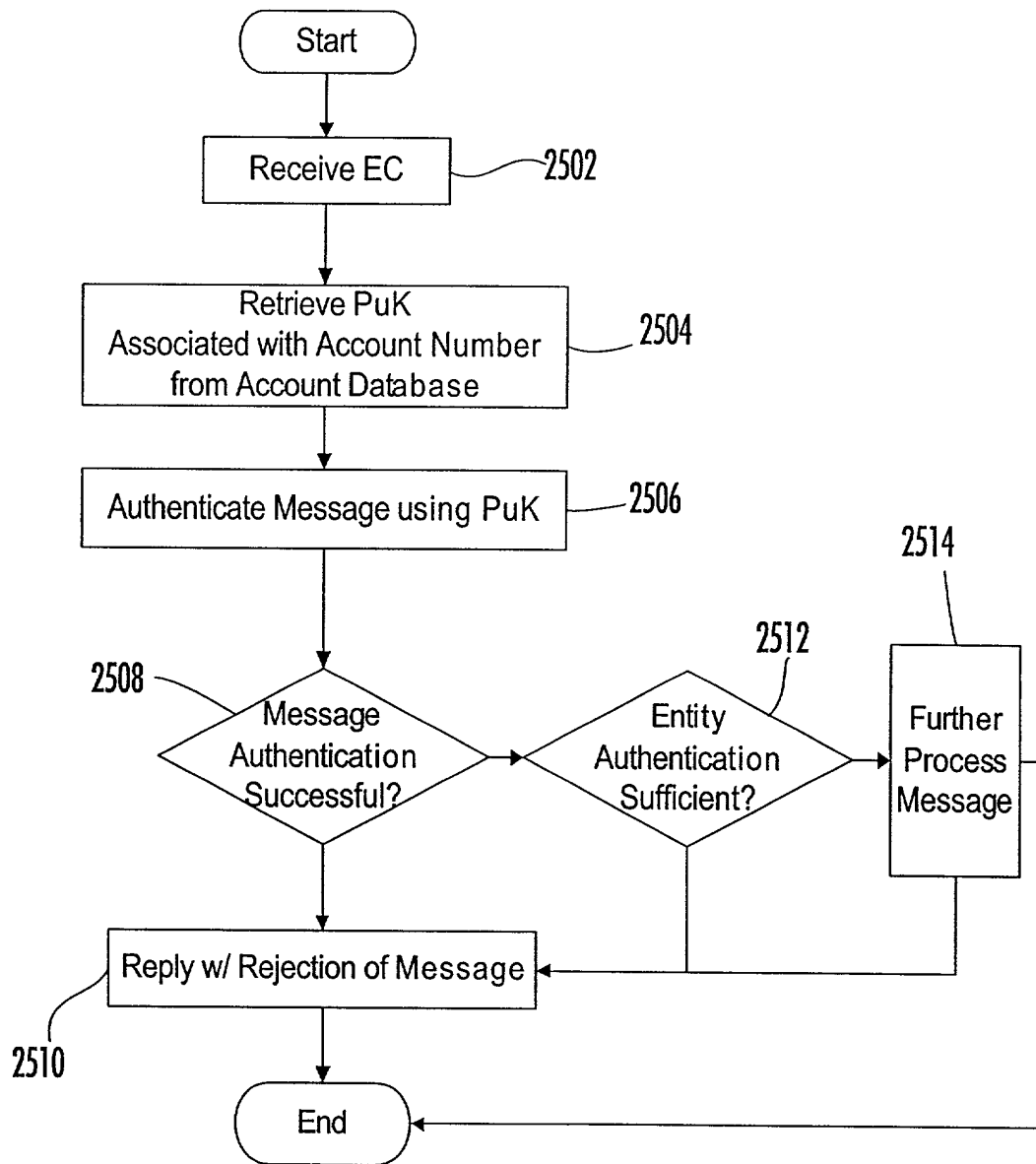
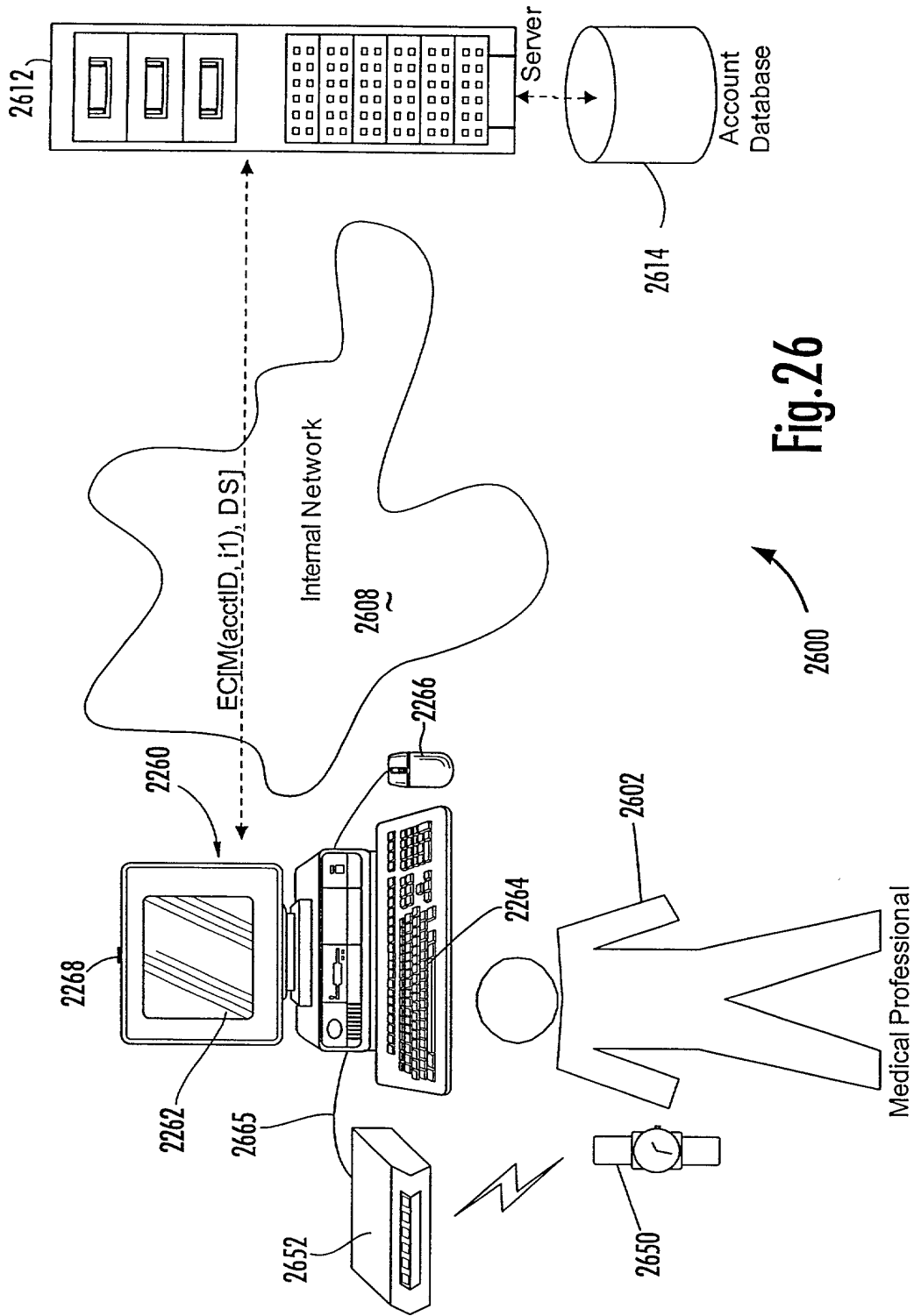
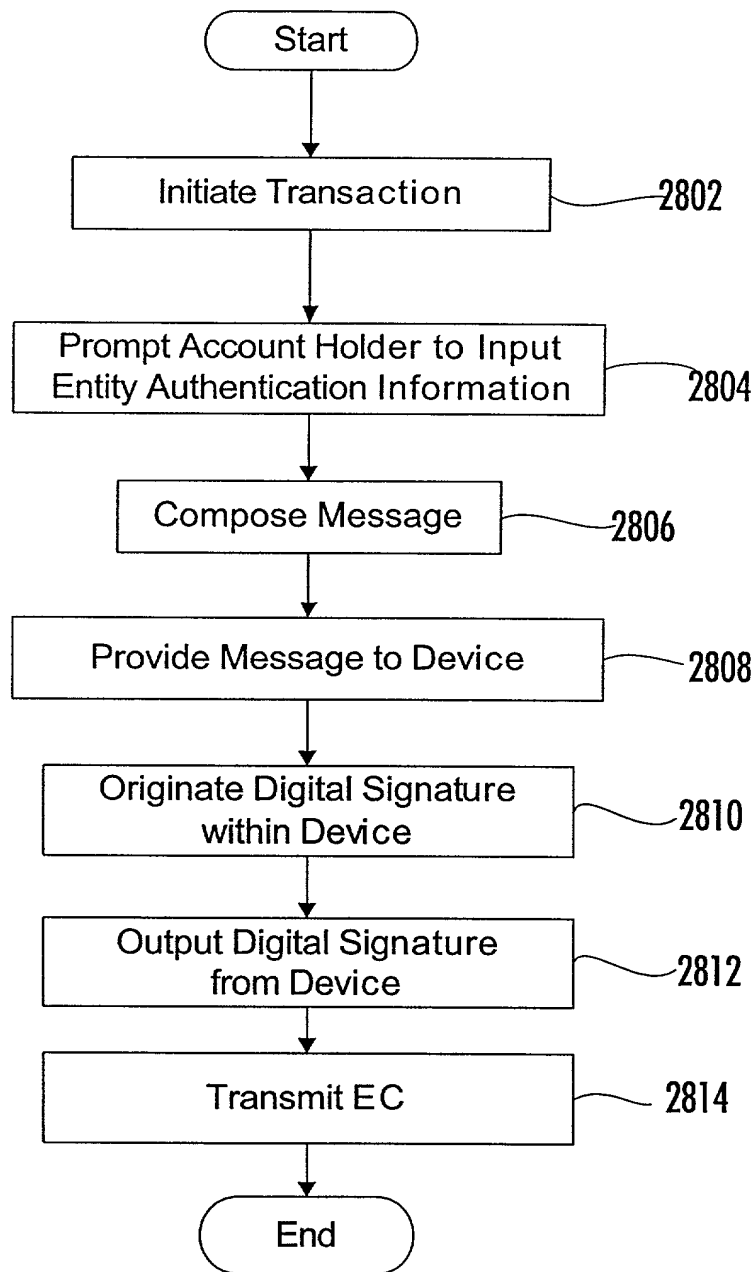


Fig. 25



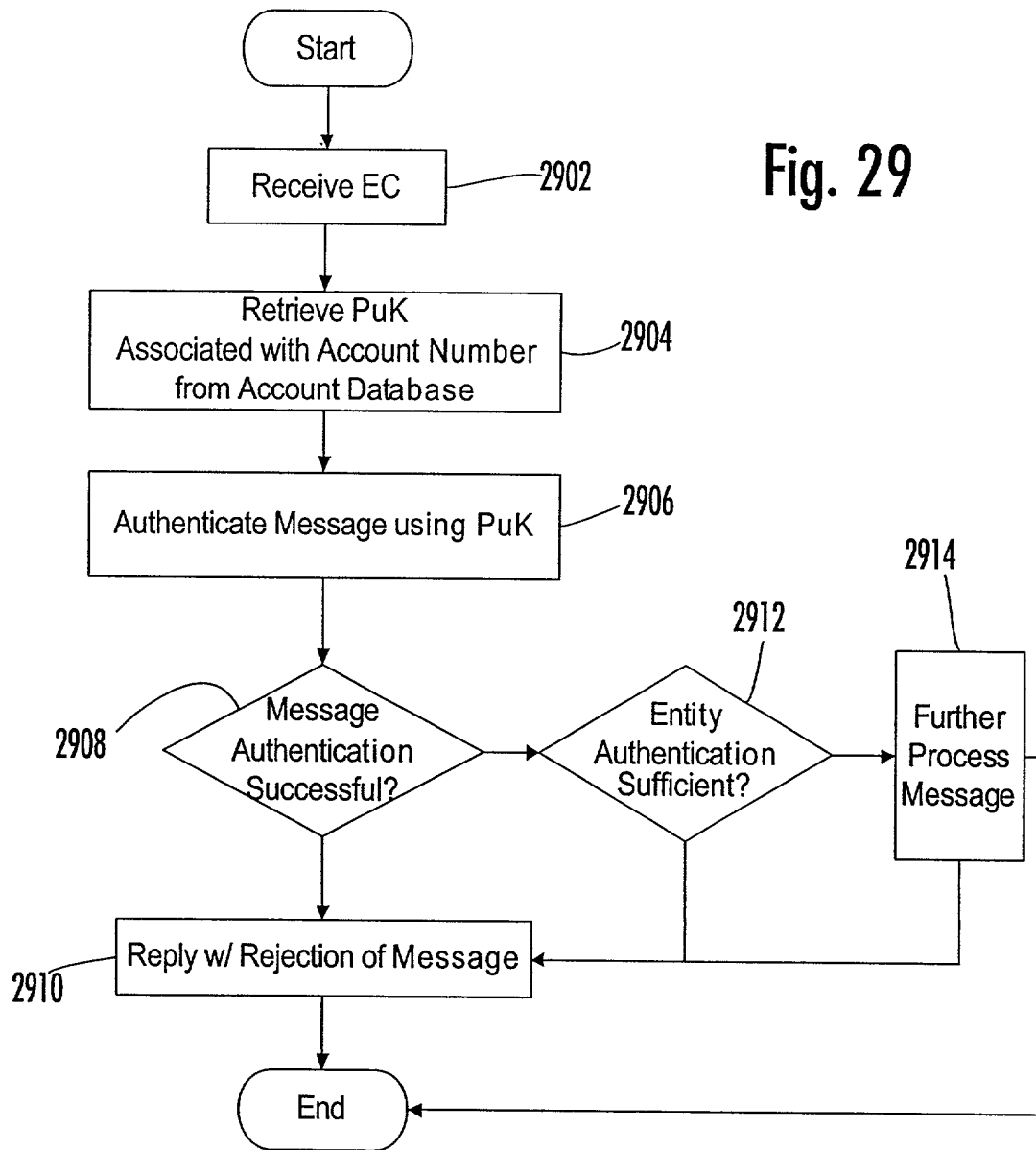
Account (Entity) Identifier (acctID) (2716)	Account Information (2740)		Public Key Information (2718)	Device Profile Information (2770)
	Entity - Specific Information (2742)	Accessible Databases (2744)		
#-####-####-###	Name Position Field of Practice Member of Groups	Group Calendar Personal Calendar Group Contact List Personal Contact List Group Patient List Personal Patient List Insurance List	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Position Field of Practice Member of Groups	Group Calendar Personal Calendar Group Contact List Personal Contact List Group Patient List Personal Patient List Insurance List	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-####-####-###	Name Position Field of Practice Member of Groups	Group Calendar Personal Calendar Group Contact List Personal Contact List Group Patient List Personal Patient List Insurance List	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

Fig. 2.



**Fig. 28**





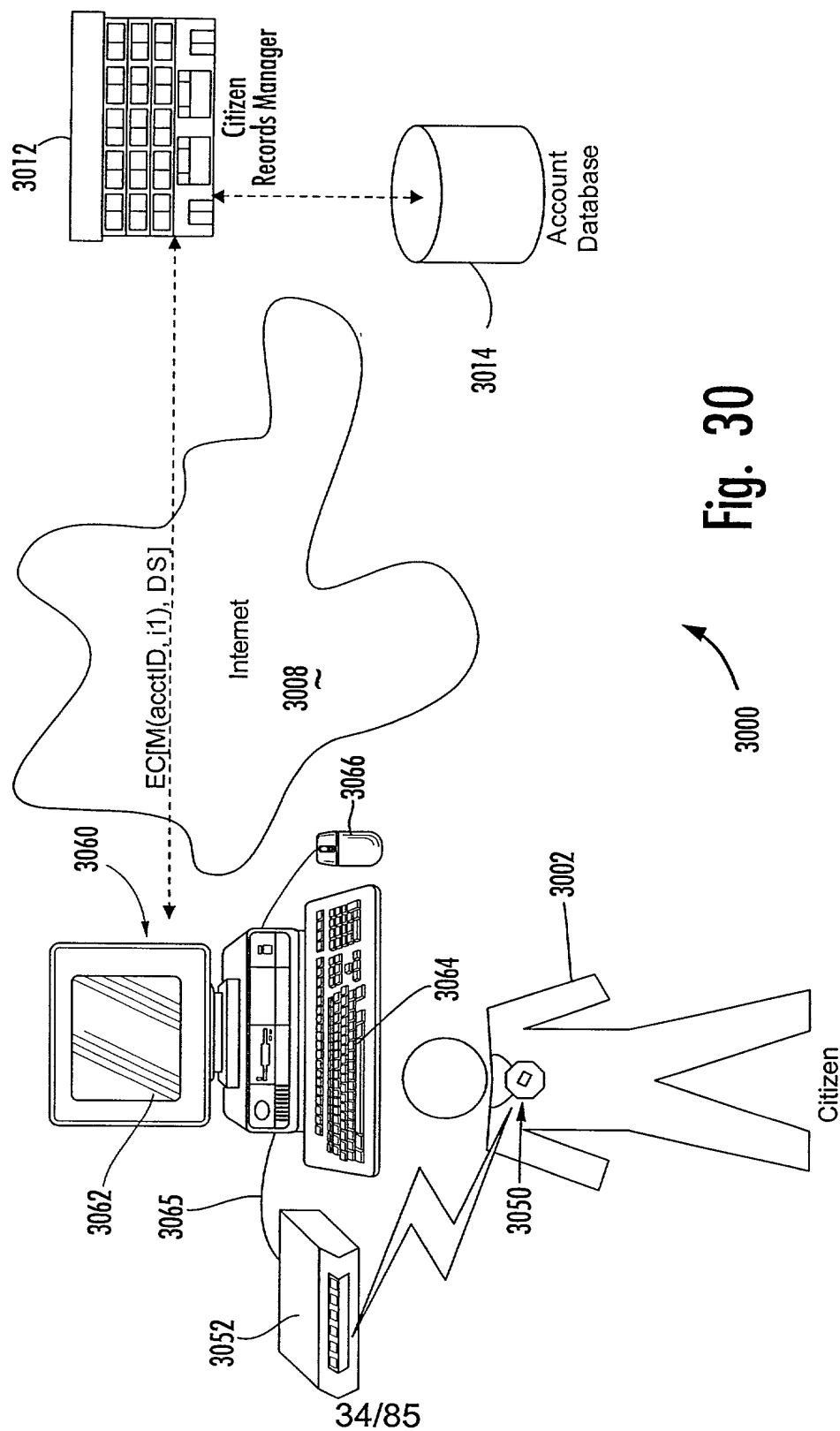
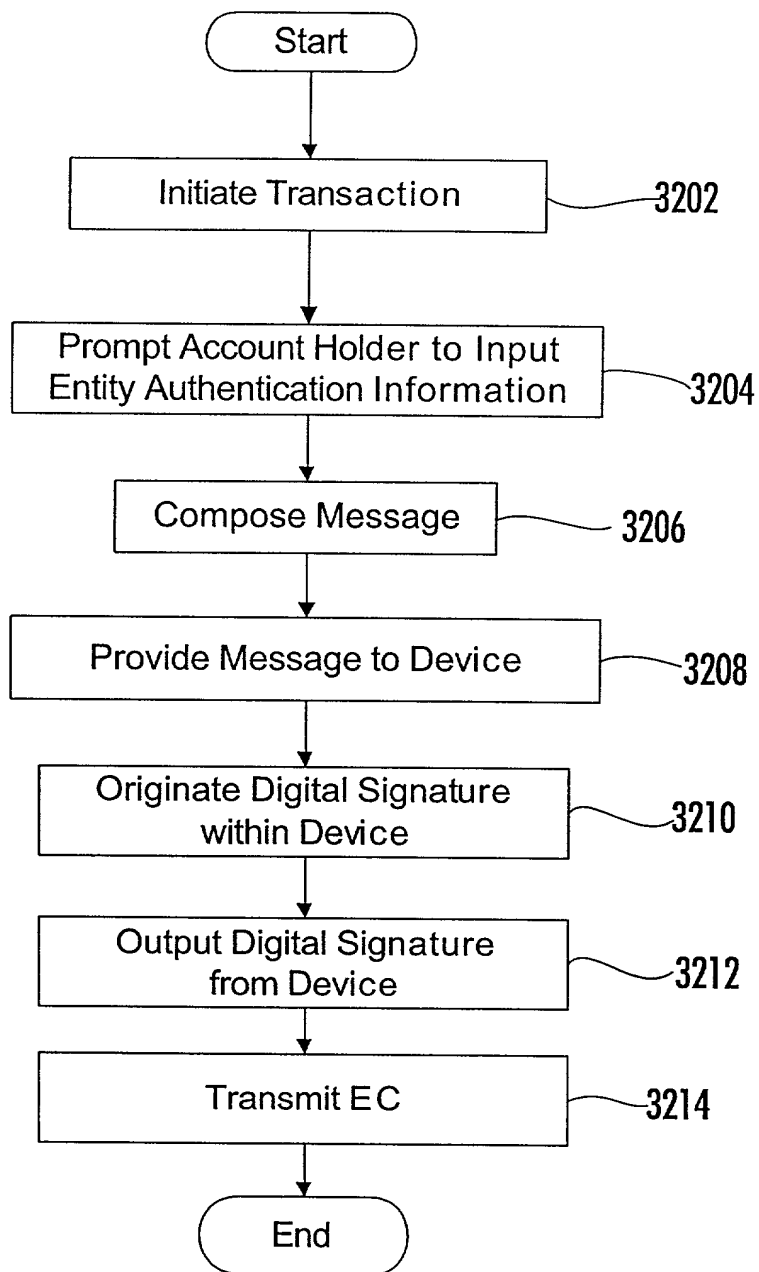


Fig. 30

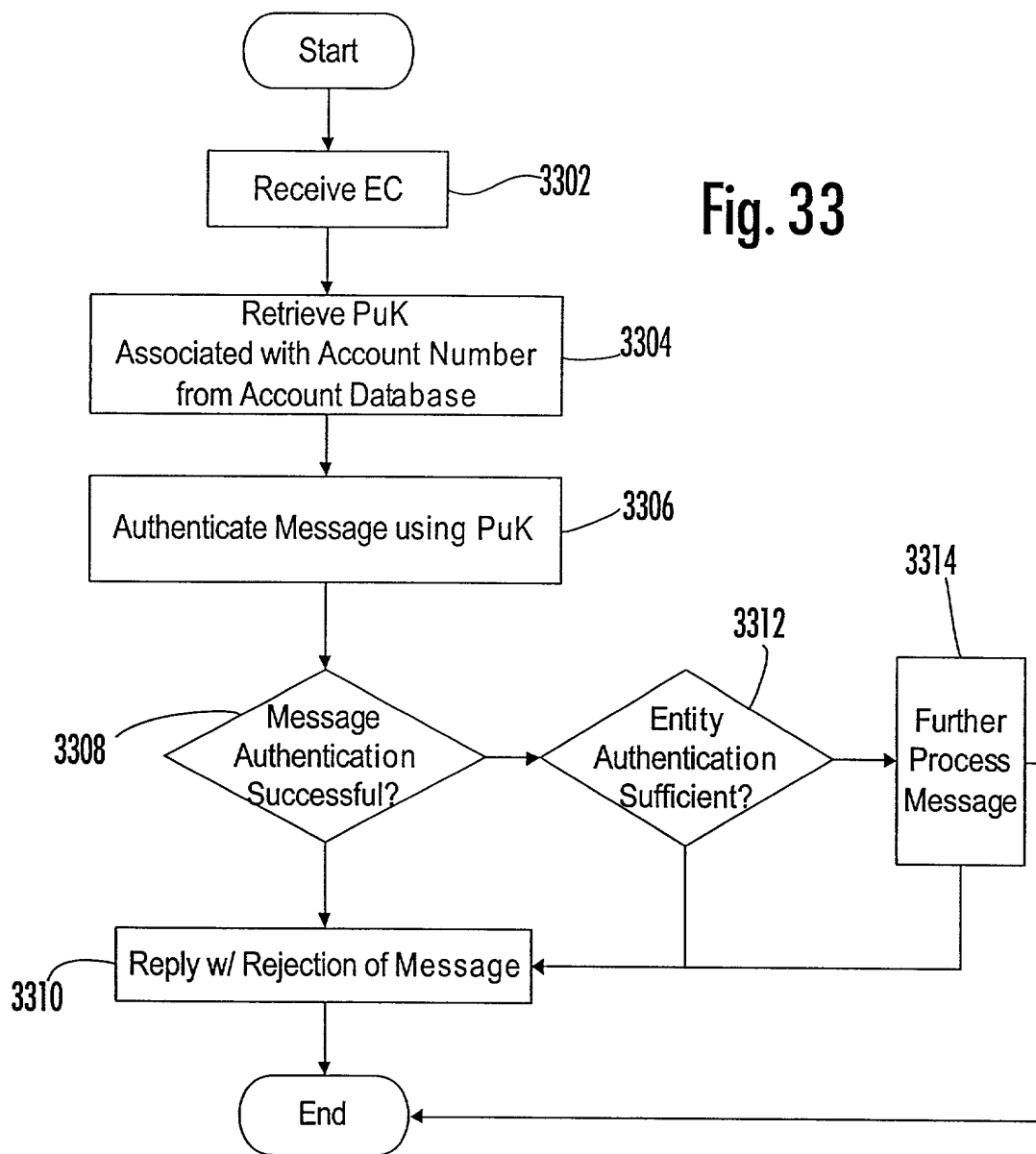
Account Identifier (acctID) (3116)	Account Information (3140)		Public Key Information (3118)	Device Profile Information (3170)
	Citizen - Specific (3142)	Account - Specific (3144)		
#-####-####-###	Name Address SSN Tax-ID number Occupation Place of Birth Age etc.	Social Security Benefits Welfare Benefits Medicare/Medicaid Benefits Prescription Benefits Universal Health Care Benefits Tax Returns (last 5 years) Bank Account Information etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Address SSN Tax-ID number Occupation Place of Birth Age etc.	Social Security Benefits Welfare Benefits Medicare/Medicaid Benefits Prescription Benefits Universal Health Care Benefits Tax Returns (last 5 years) Bank Account Information etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-####-####-###	Name Address SSN Tax-ID number Occupation Place of Birth Age etc.	Social Security Benefits Welfare Benefits Medicare/Medicaid Benefits Prescription Benefits Universal Health Care Benefits Tax Returns (last 5 years) Bank Account Information etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

Fig. 31



**Fig. 32**

Fig. 33



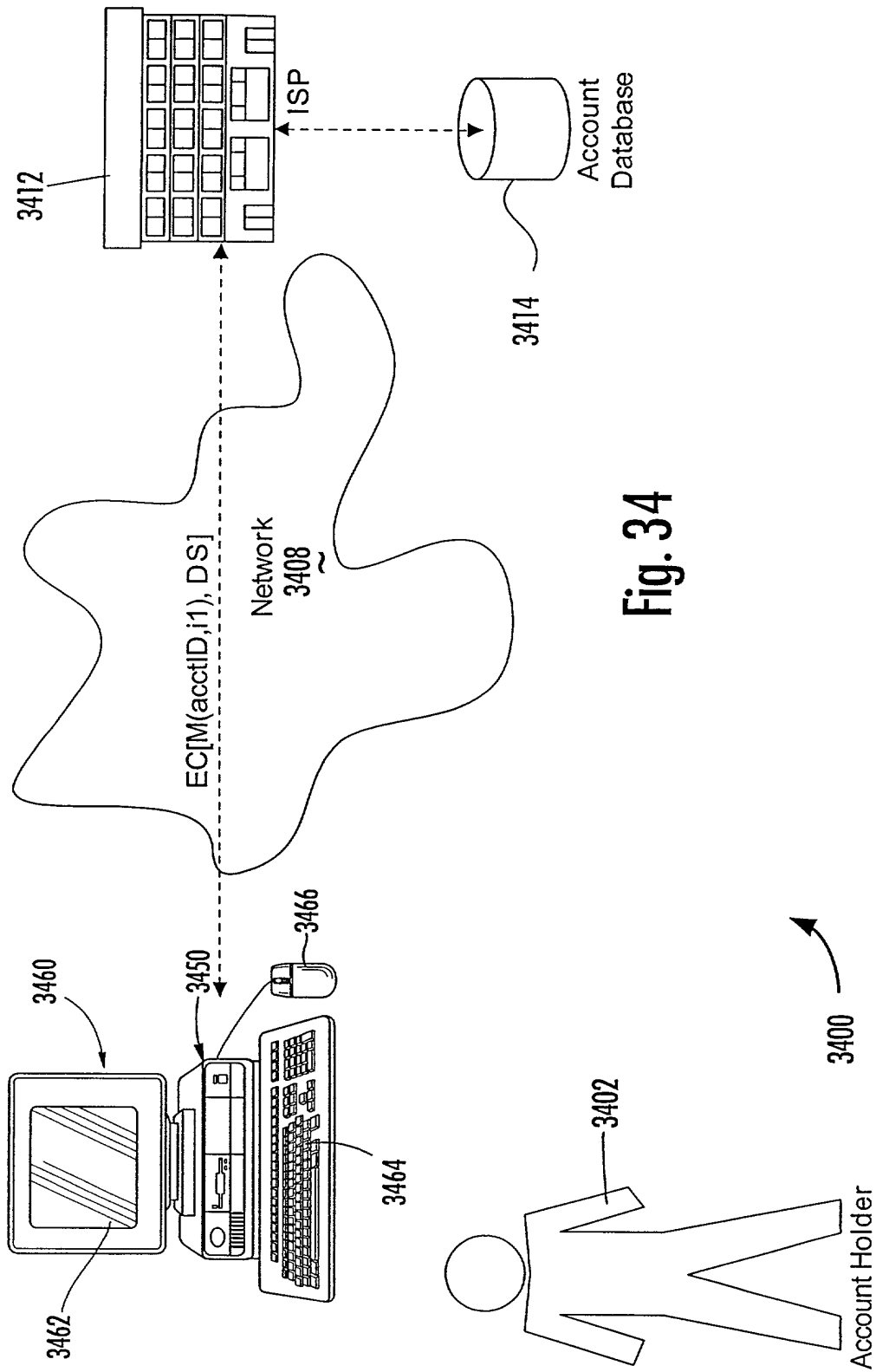
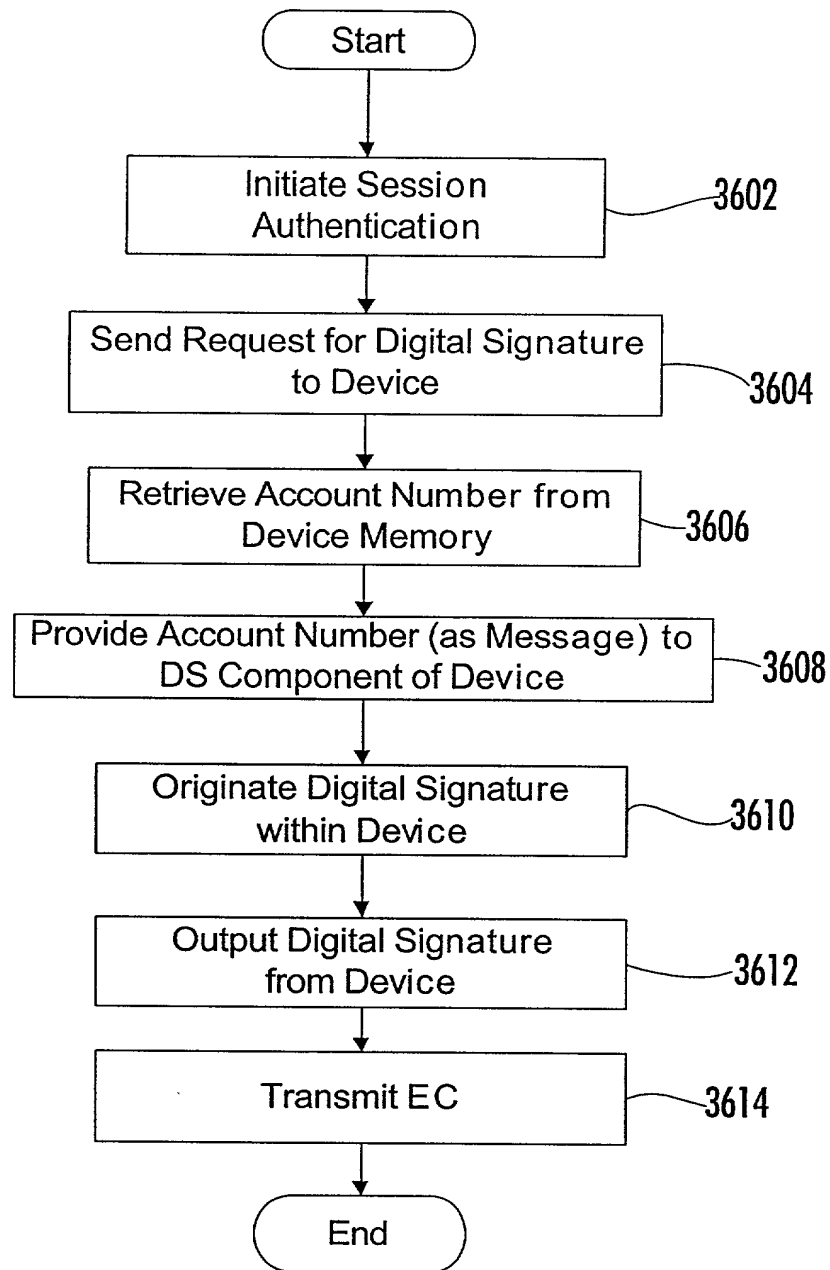


Fig. 34

Account Identifier (acctID) (3516)	Account Information (3540)		Public Key Information (3518)	Device Profile Information (3570)
	Customer -Specific (3542)	Account -Specific (3544)		
#-####-####-###	Name Billing Address EMail Address Credit Card Information	ISP Connection Means & Speed Internet Hours Used Internet Hours Available EMail accounts (aliases) Web page address etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Billing Address EMail Address Credit Card Information	ISP Connection Means & Speed Internet Hours Used Internet Hours Available EMail accounts (aliases) Web page address etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-####-####-###	Name Billing Address EMail Address Credit Card Information	ISP Connection Means & Speed Internet Hours Used Internet Hours Available EMail accounts (aliases) Web page address etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

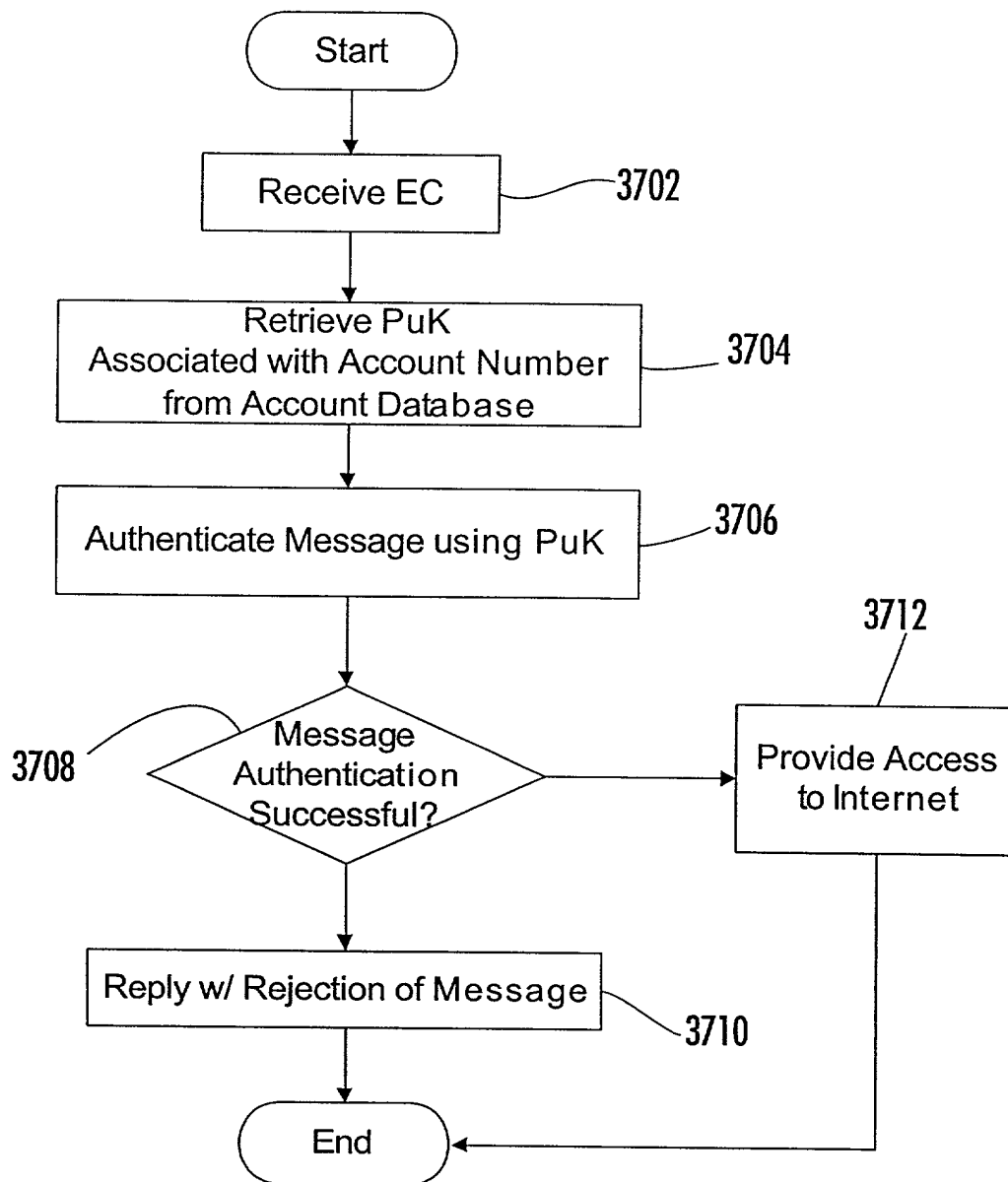
3414

Fig. 35



**Fig. 36**





**Fig. 37**

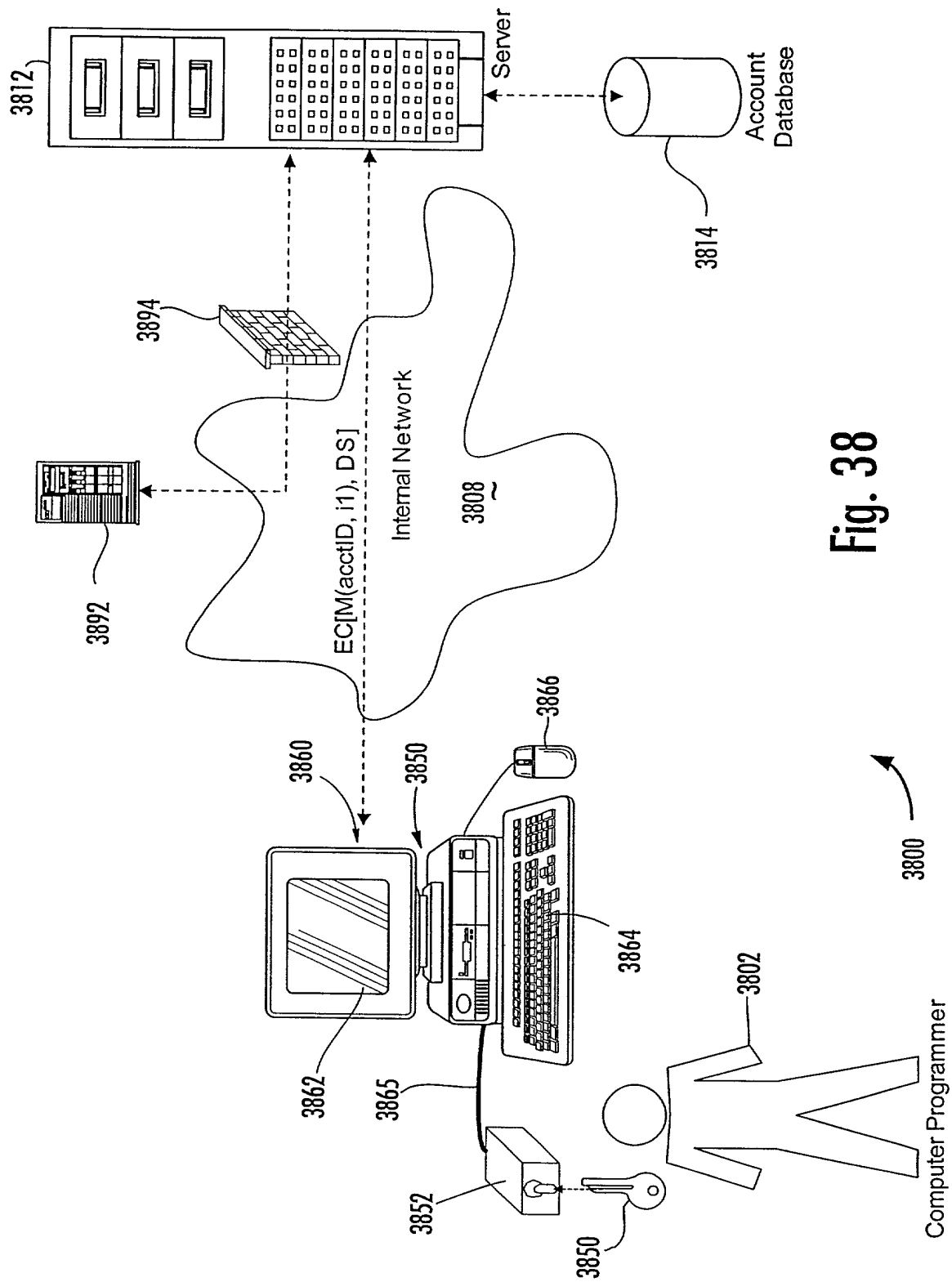
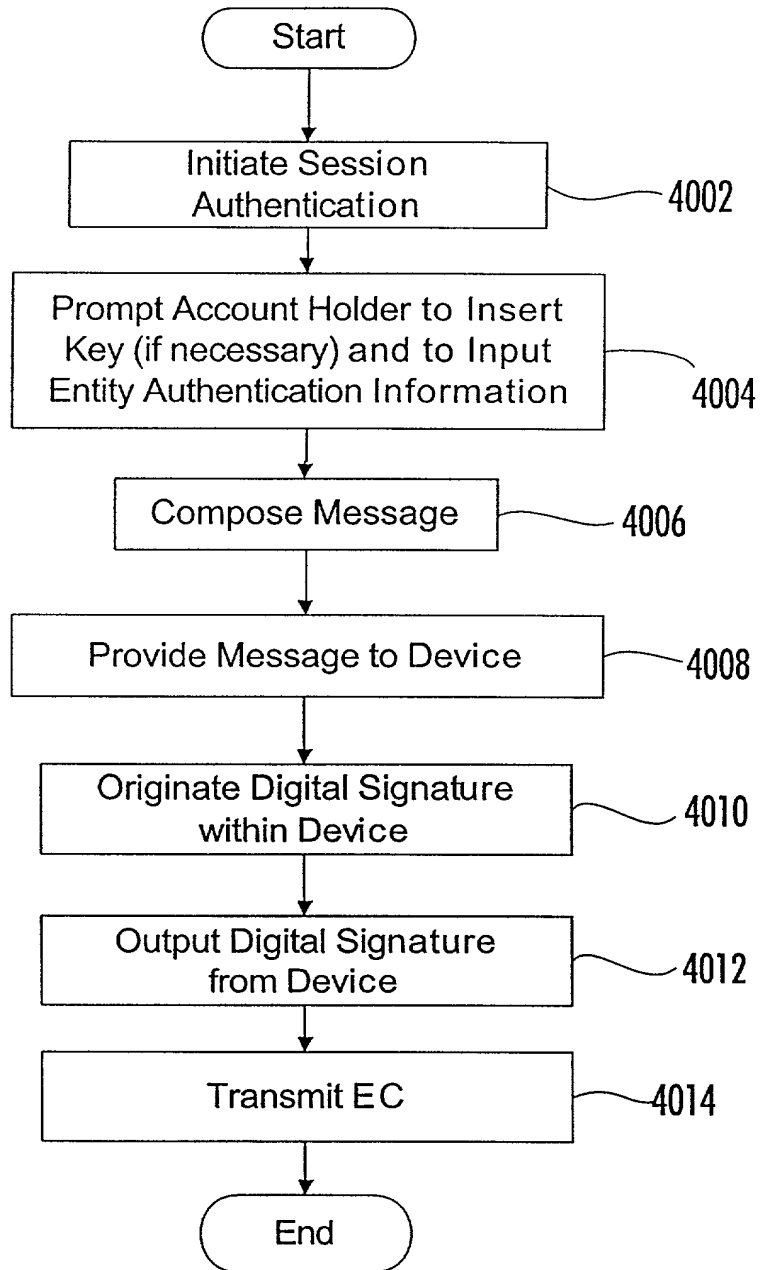


Fig. 38

Account (Employee) Identifier (acctID) (3916)	Account Information (3940)		Public Key Information (3918)	Device Profile Information (3970)
	Employee-Specific Information (3942)	Accessible Databases (3944)		
#-####-####-###	Name Email Address Department Supervisor Project(s) Building Location Room Location Computer Number	Project 1 Project 2 Project 3 ... Project n	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Email Address Department Supervisor Project(s) Building Location Room Location Computer Number	Project 1 Project 2 Project 3 ... Project n	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-####-####-###	Name Email Address Department Supervisor Project(s) Building Location Room Location Computer Number	Project 1 Project 2 Project 3 ... Project n	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

Fig.



**Fig.40**

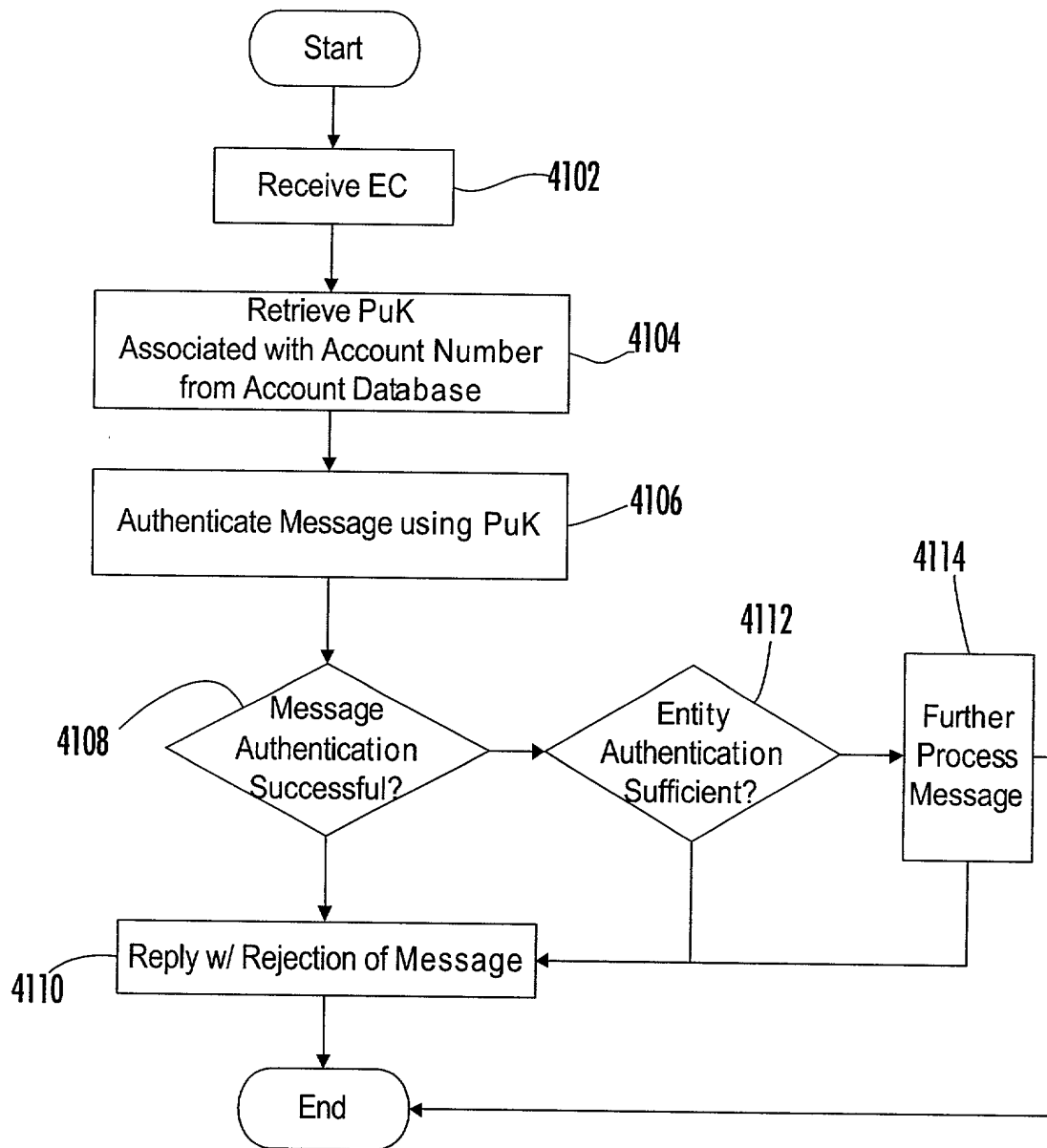


Fig. 41

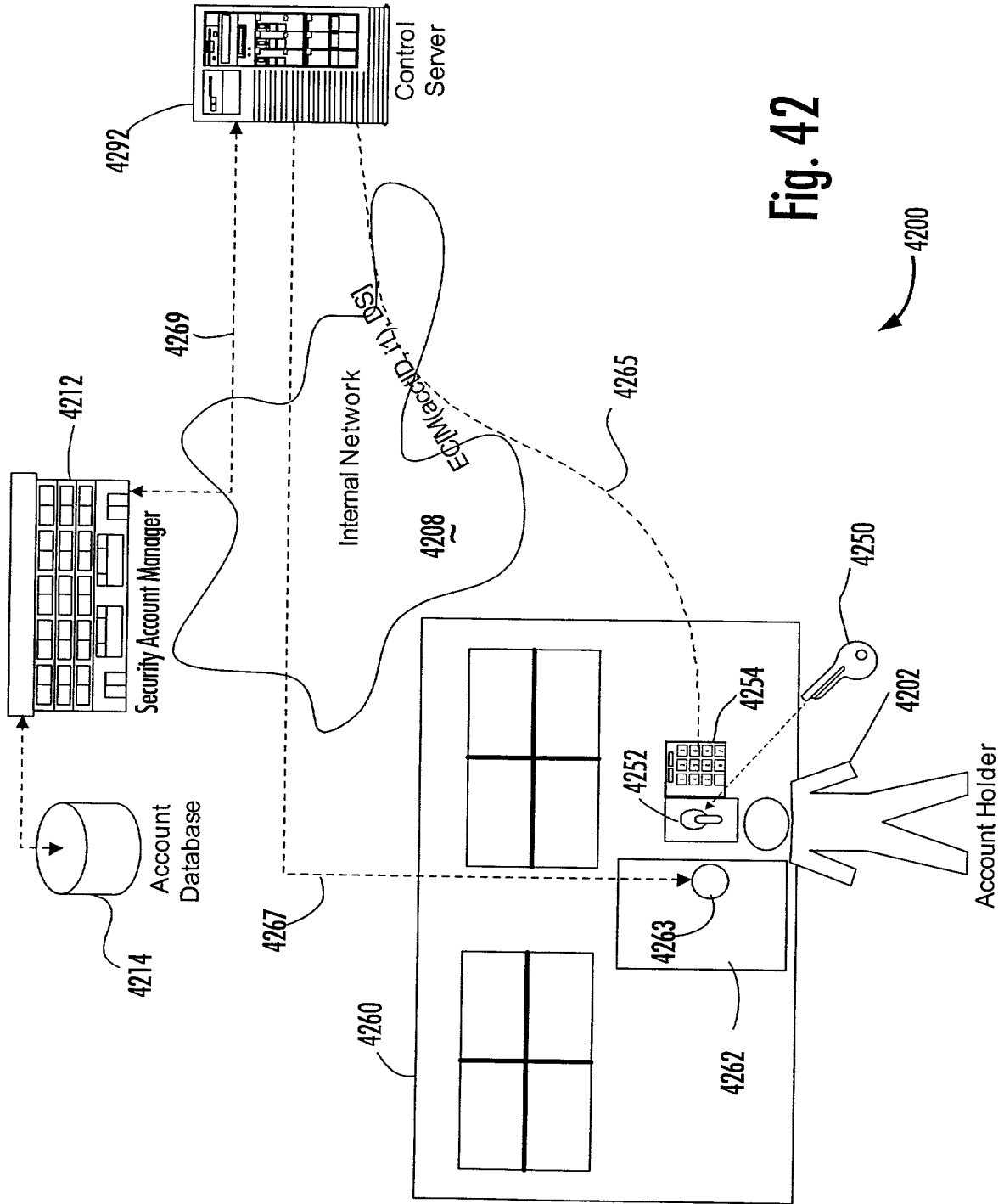
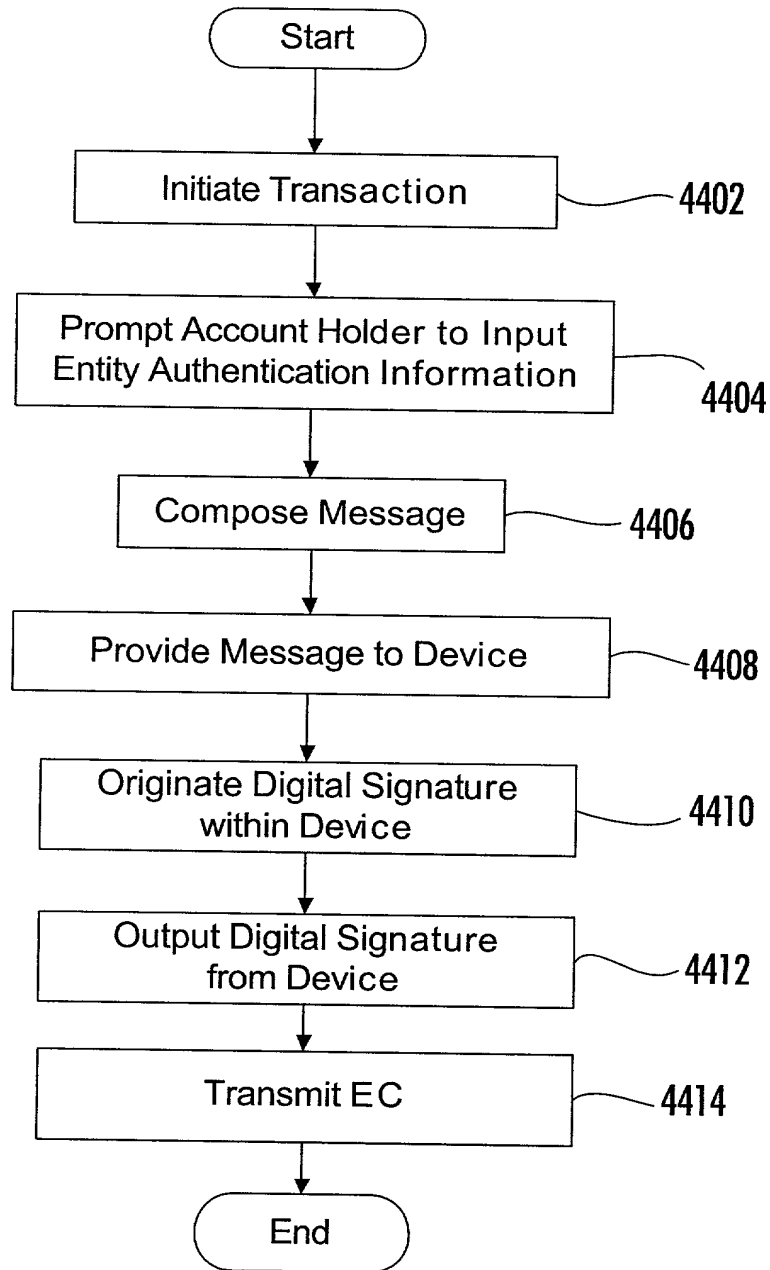


Fig. 42

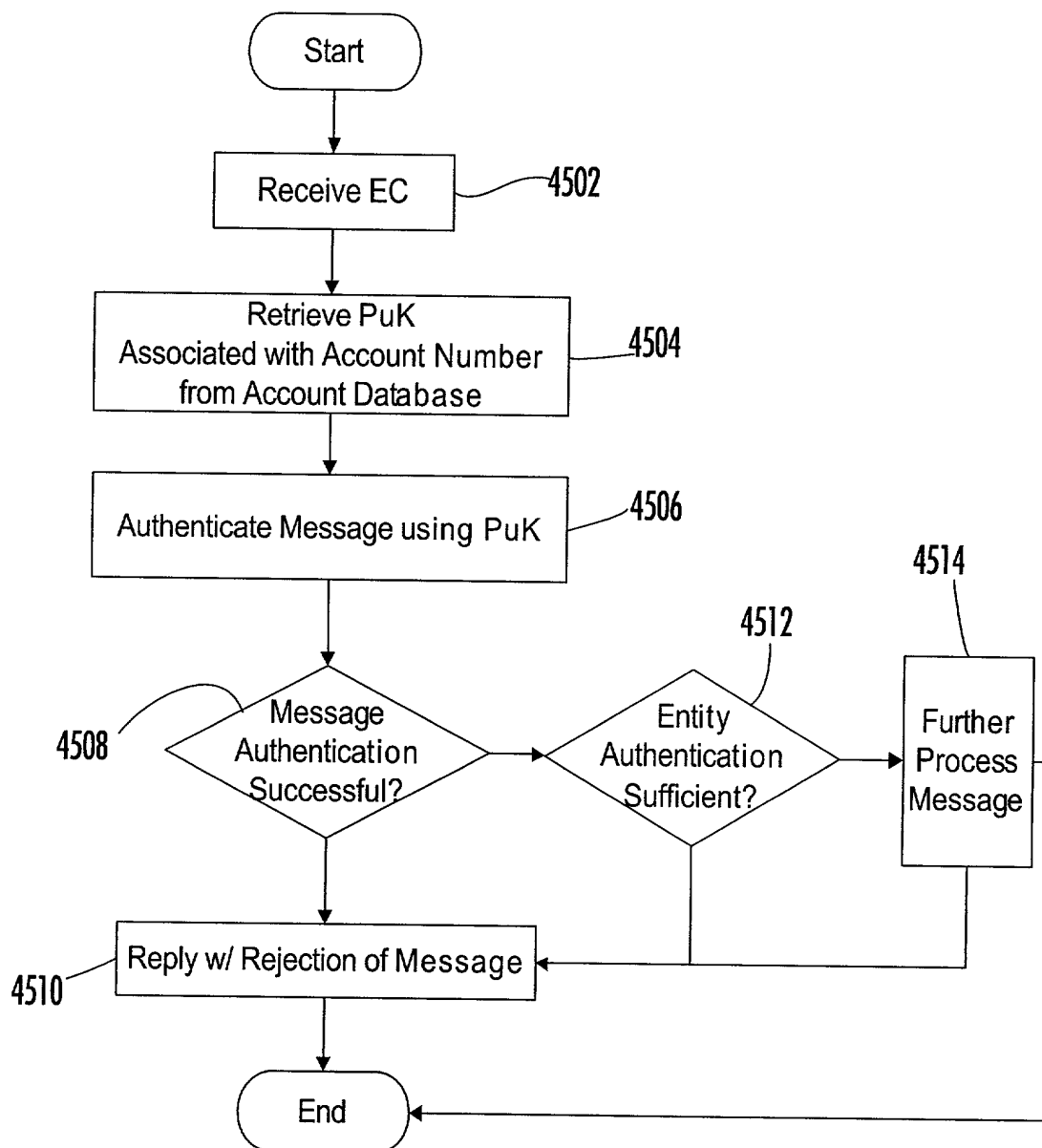
Account (Employee) Identifier (actID) (4316)	Account Information (4340)				Public Key Information (4318)	Device Profile Information (4370)
	Employee-Specific Information (4342)	Secured Spaces (4344)	Access Requirements (4346)			
#-####-####-###	Name Email Address Department Supervisor Project(s) Building Location Room Location Computer Number	Parking Lot Main Bldg. Floors 1-6 Floors 7-10 Room 610 Other secure rooms Space n	Device Device+PIN Device+PIN Dev.+PIN+BIO Device+BIO None None		PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Email Address Department Supervisor Project(s) Building Location Room Location Computer Number	Parking Lot Main Bldg. Floors 1-6 Floors 7-10 Room 610 Other secure rooms Space n	Device Device+PIN Device+PIN Dev.+PIN+BIO Device+BIO None None		PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...	...	...
#-####-####-###	Name Email Address Department Supervisor Project(s) Building Location Room Location Computer Number	Parking Lot Main Bldg. Floors 1-6 Floors 7-10 Room 610 Other secure rooms Space n	Device Device+PIN Device+PIN Dev.+PIN+BIO Device+BIO None None		PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

Fig. 43



**Fig. 44**





**Fig. 45**

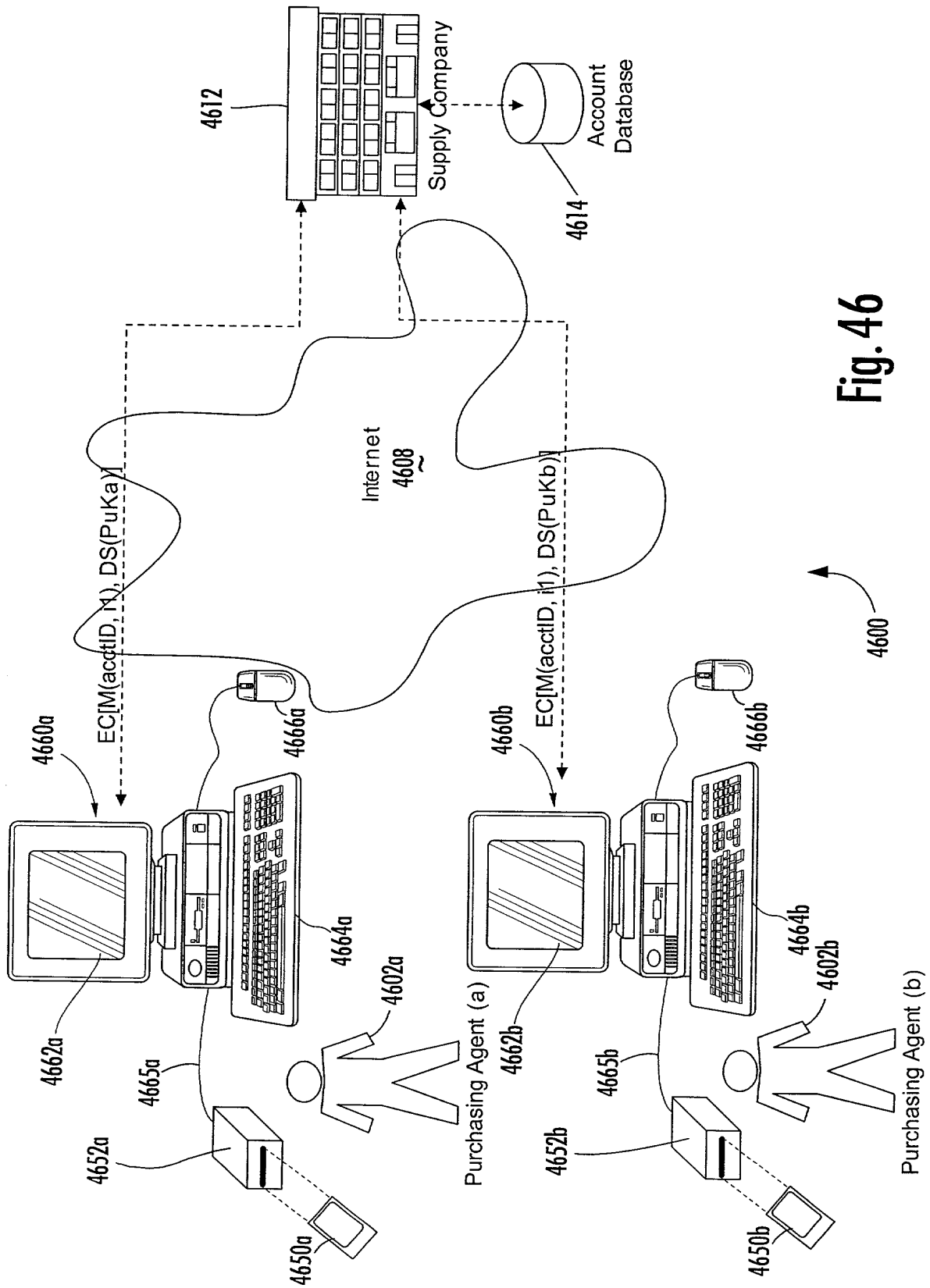
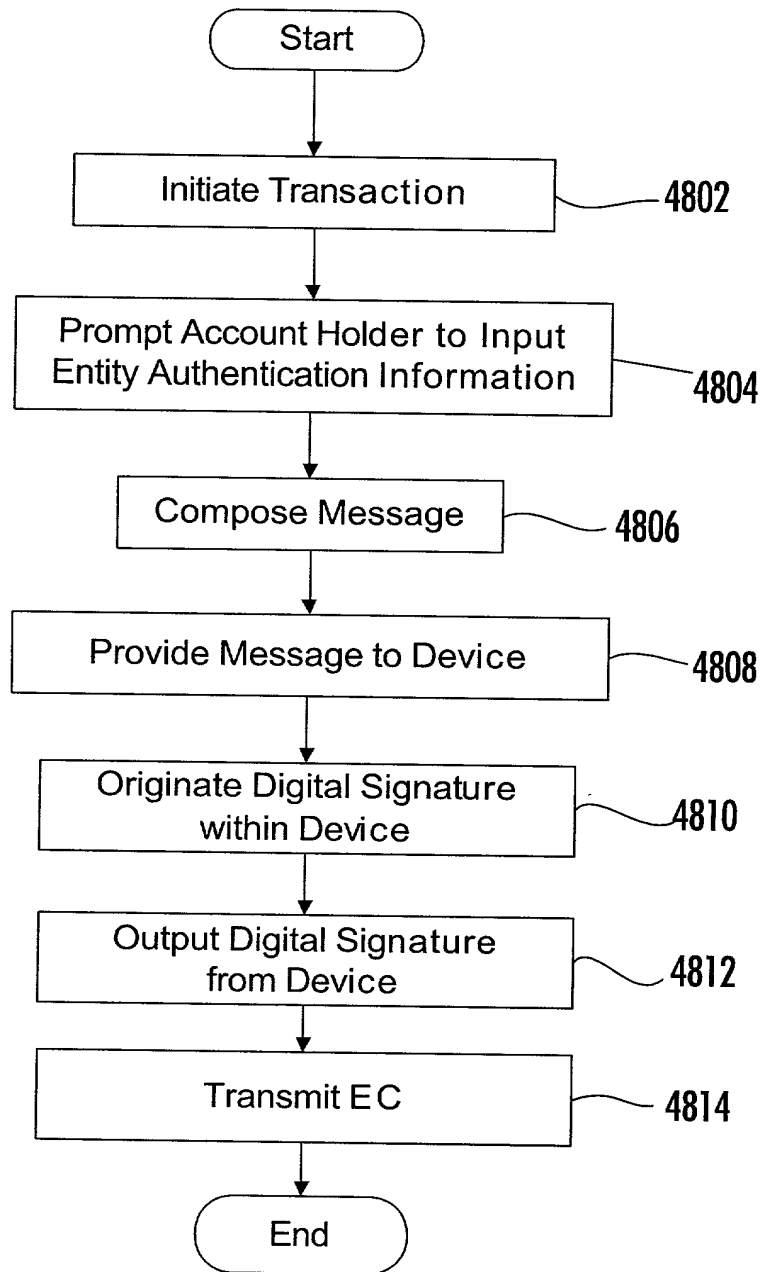


Fig. 46

Account Identifier (acctID) (4716)	Account Information (4740)		Public Key Information (4718)	Device Profile Information (4770)
	Account-Specific (4742)	Purchasing Agent - Specific (4744)		
#-###-###-###-###	Company Name Primary Contact eMail Address Billing Address Billing Information List of Purchasing Agents	Agent Name Purchasing Agent (a) Contact Info Purchasing Restrictions	PuKa	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
		Agent Name Purchasing Agent (b) Contact Info Purchasing Restrictions	PuKb	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
		...	...	...
		Agent Name Purchasing Agent (n) Contact Info Purchasing Restrictions	PuKn	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

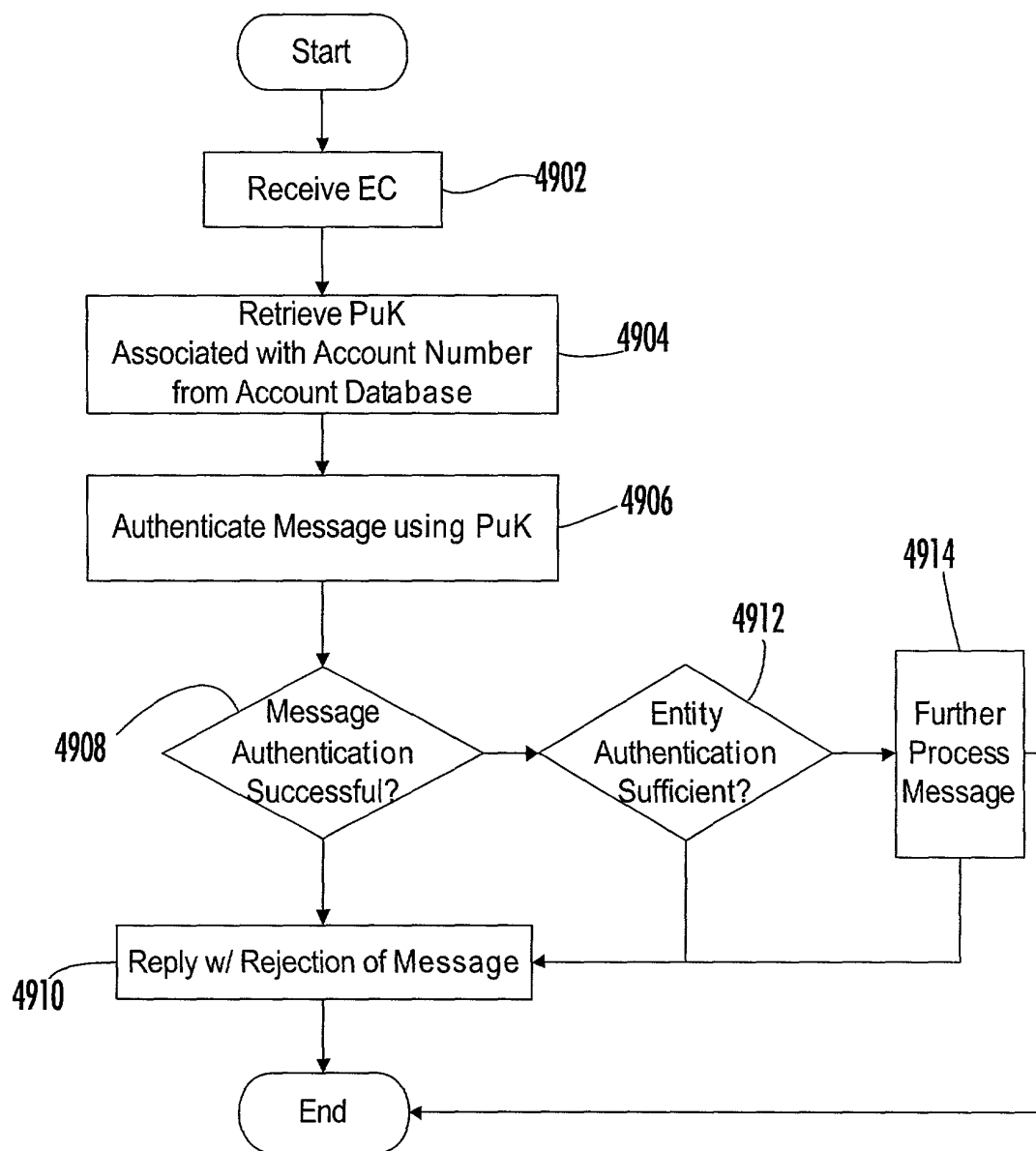
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Fig. 47

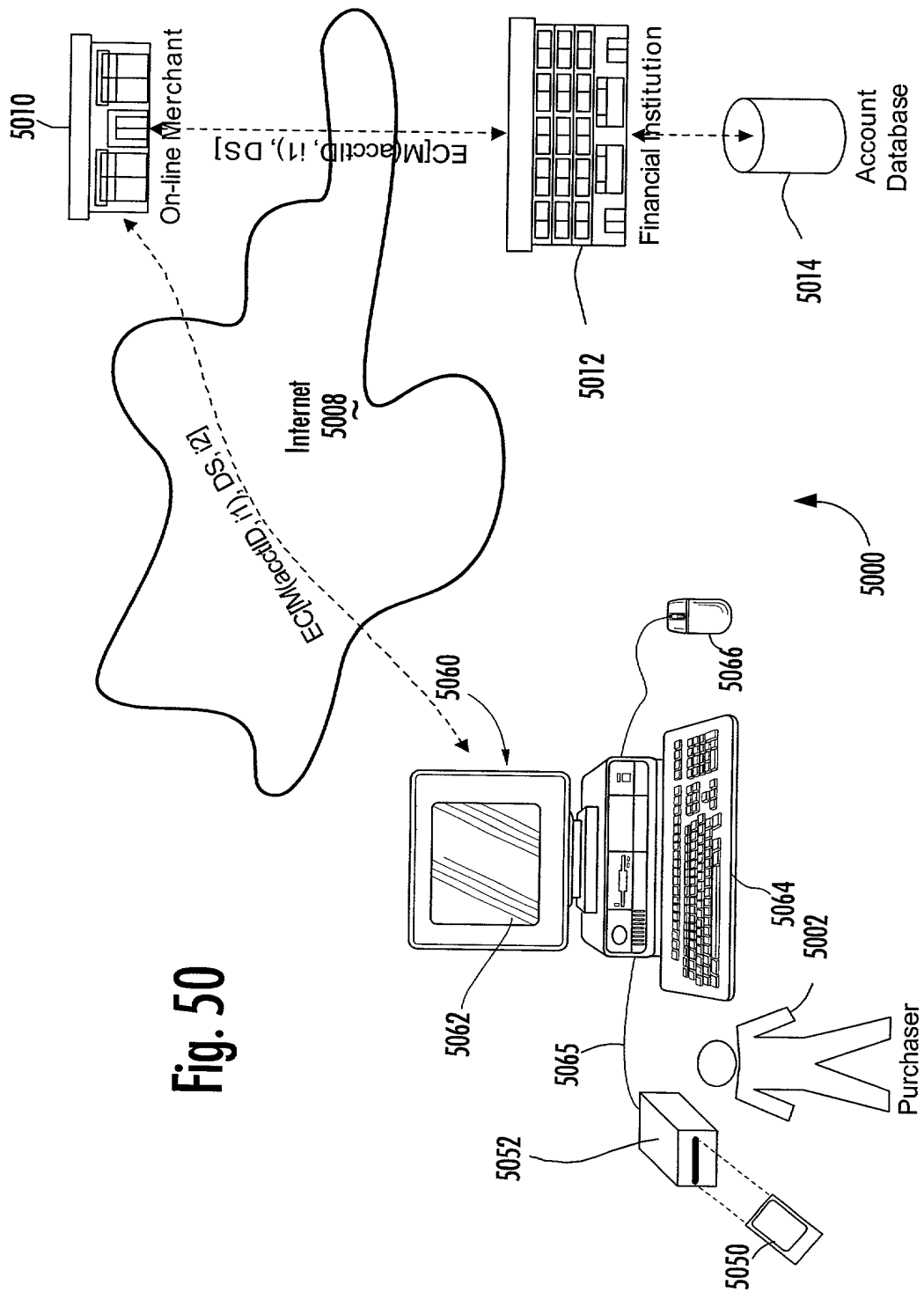


**Fig.48**

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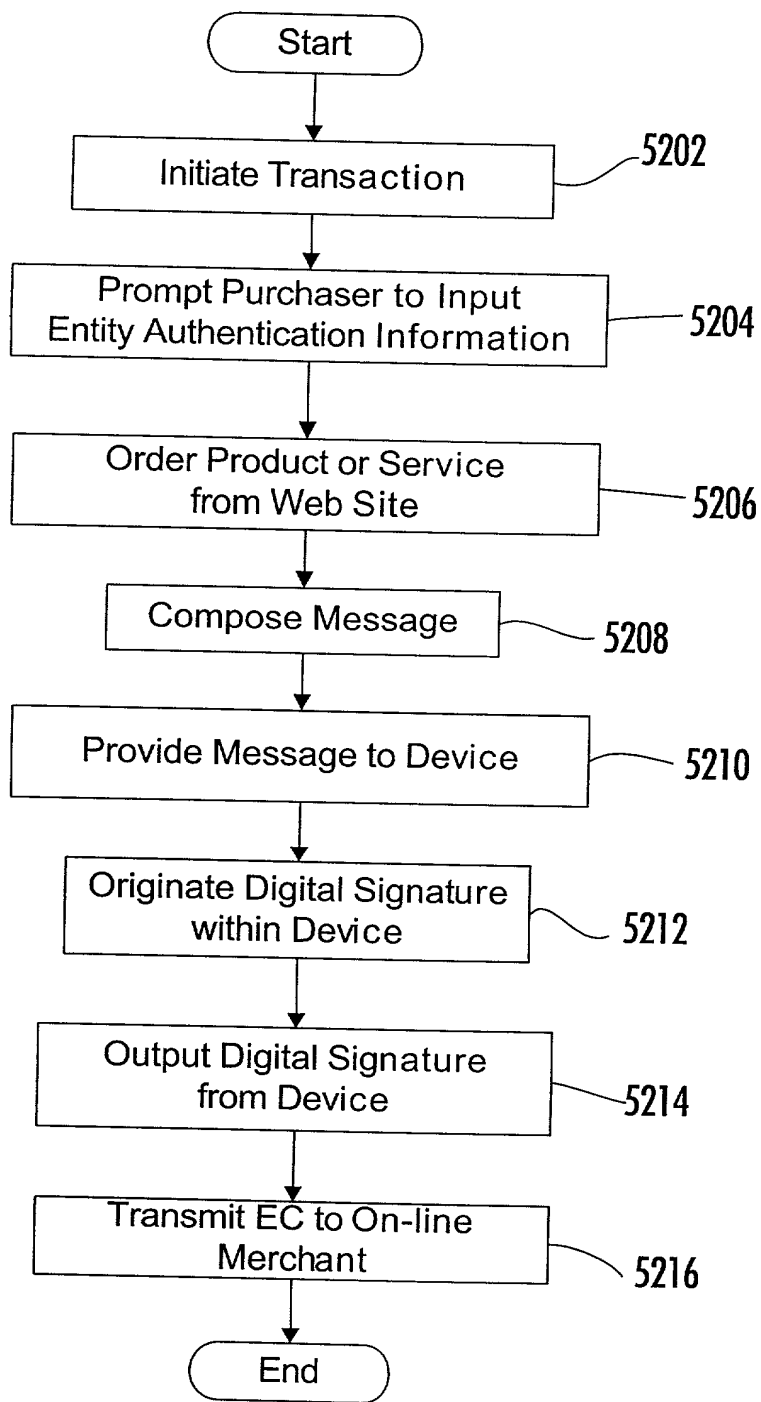
**Fig. 49**



Account Identifier (acctID) (5116)	Account Information (5140)		Public Key Information (5118)	Device Profile Information (5170)
	Customer-Specific (5142)	Account-Specific (5144)		
#-####-####-###	Name Address SSN/Tax-ID number etc.	Account Balance Available Credit Current Statement Associated Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Address SSN/Tax-ID number etc.	Account Balance Available Credit Current Statement Associated Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-###-####-###	Name Address SSN/Tax-ID number etc.	Account Balance Available Credit Current Statement Associated Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

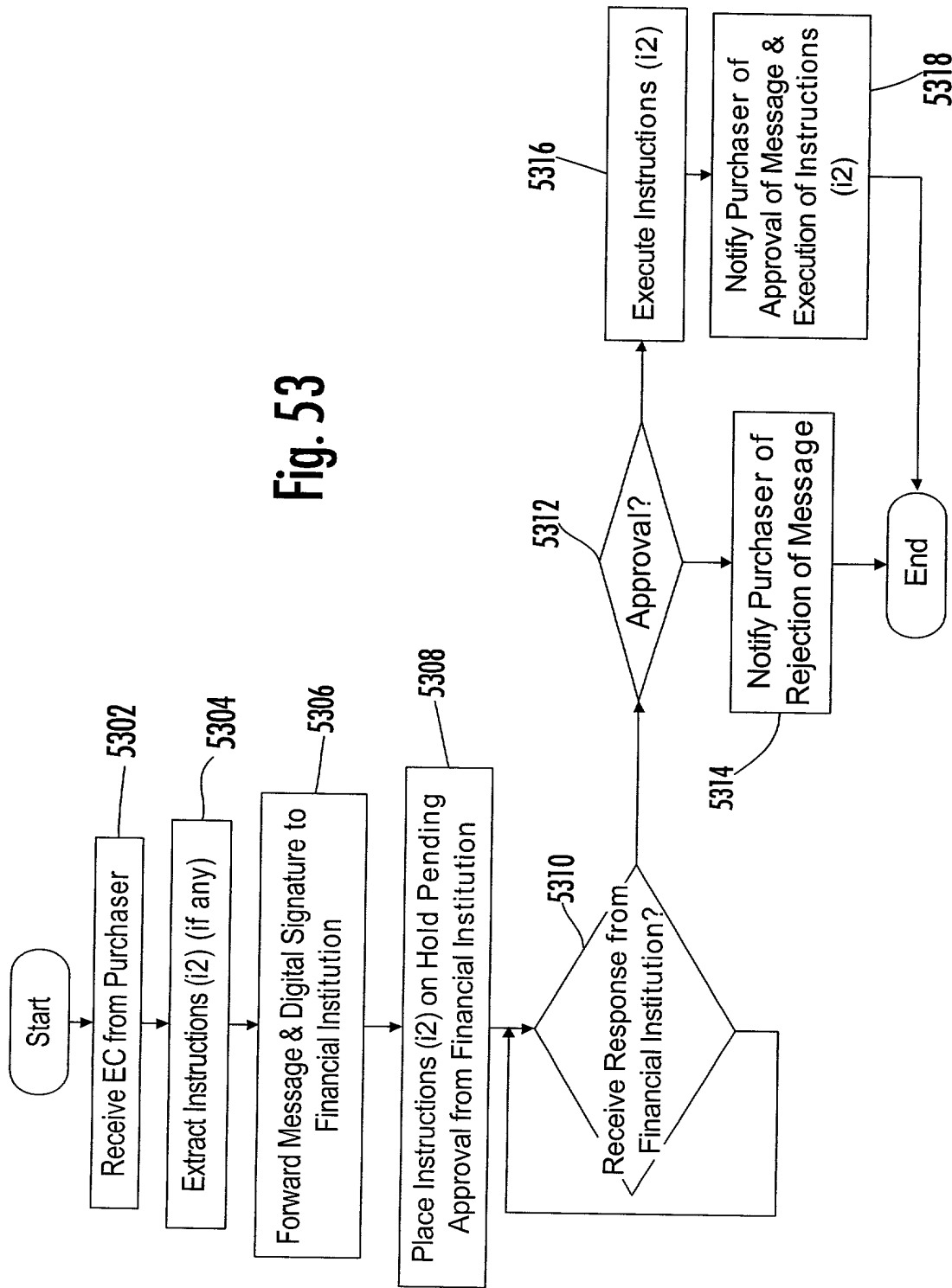
5014

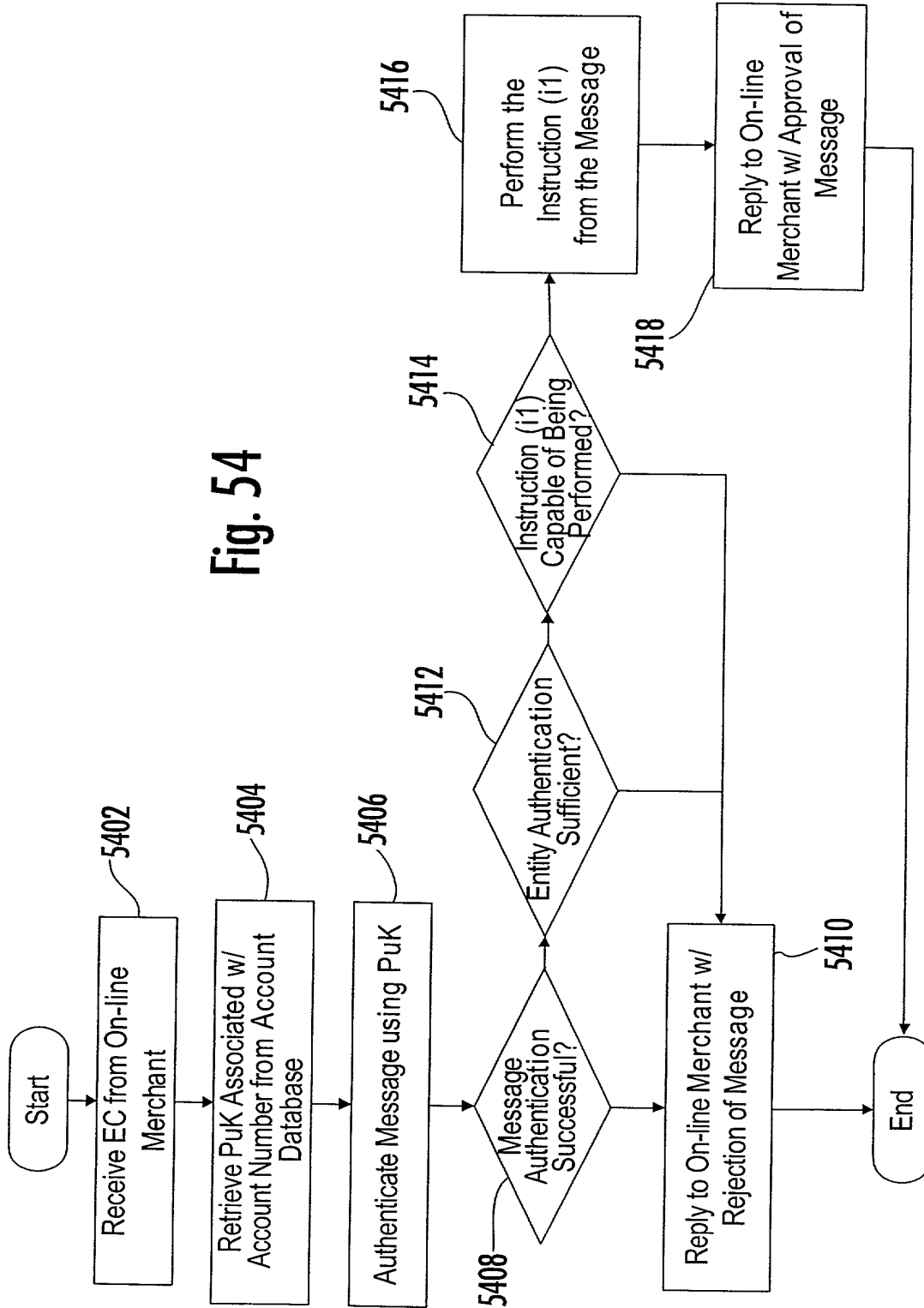
Fig. 51



**Fig. 52**







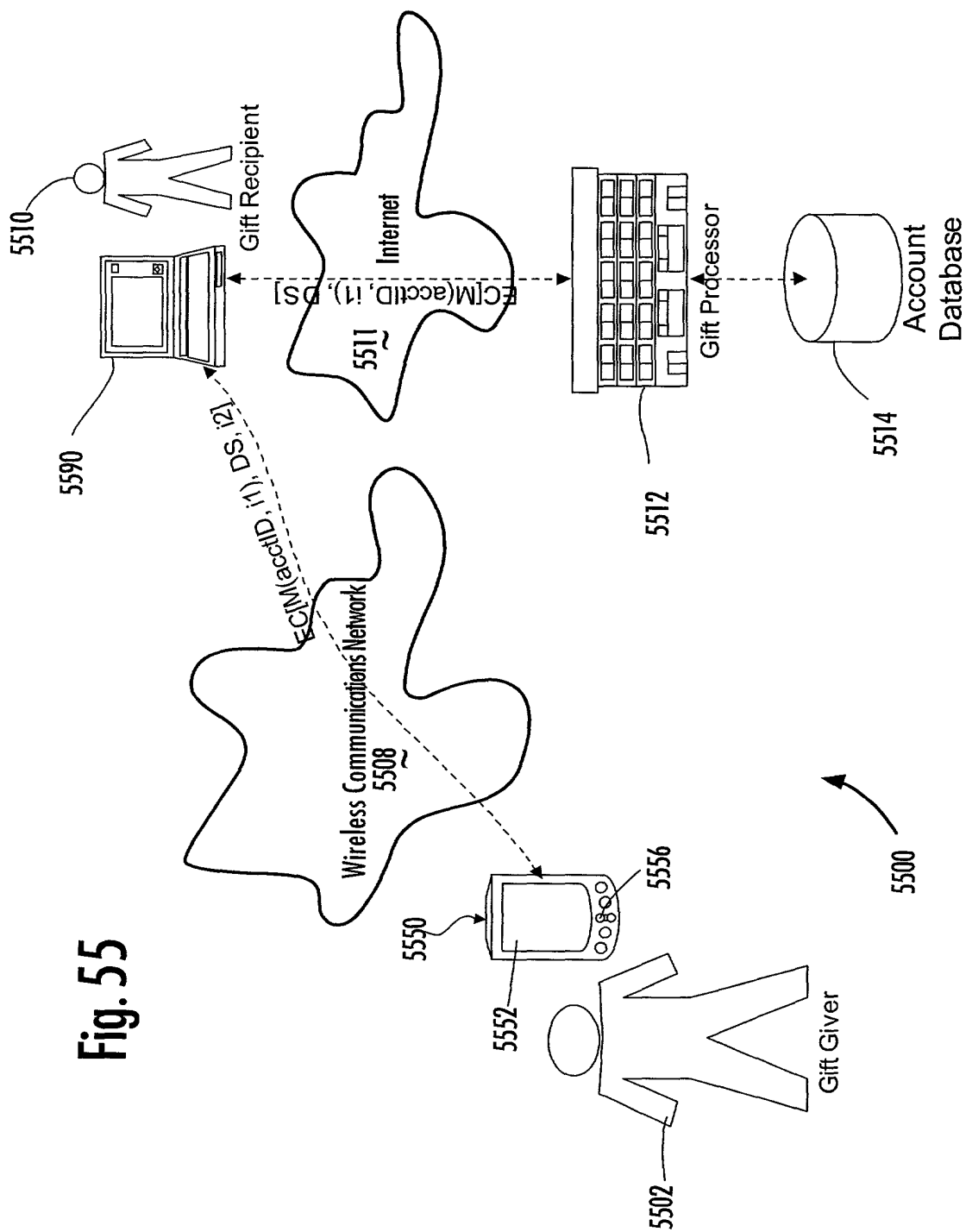


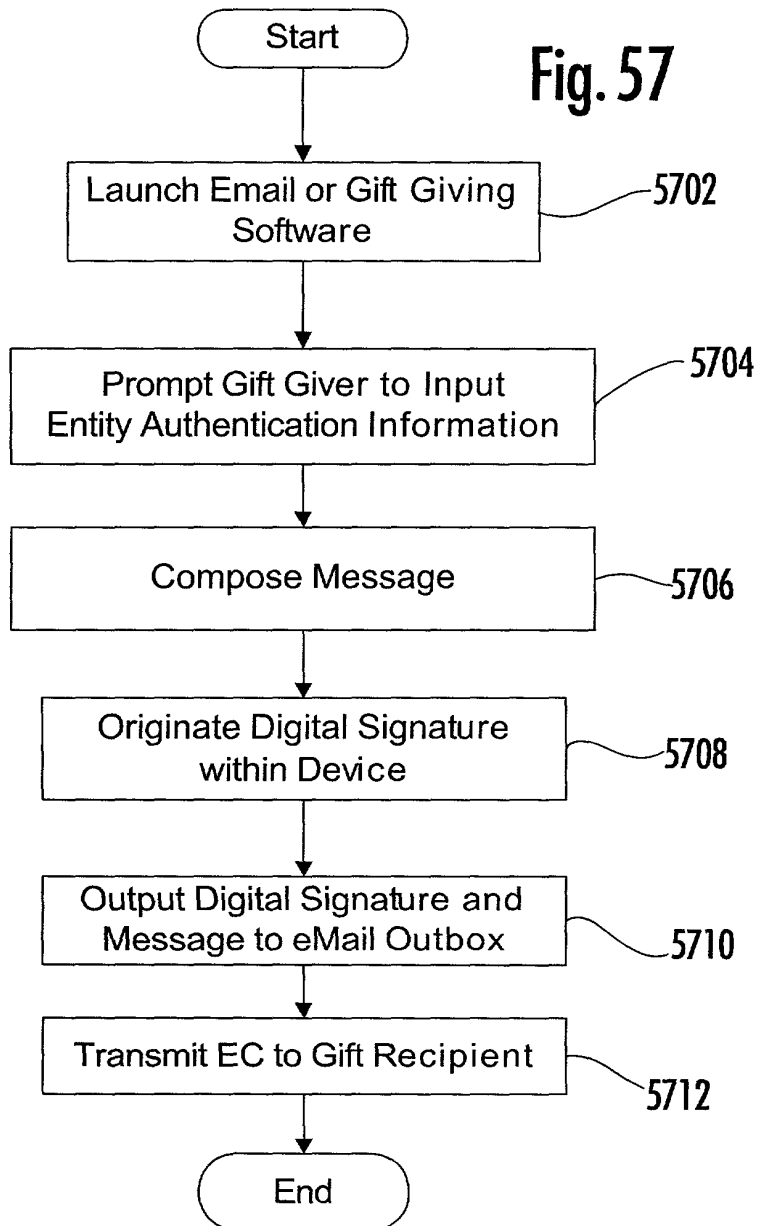
Fig. 55

Account Identifier (acctID) (5616)	Account Information (5640)		Public Key Information (5618)	Device Profile Information (5670)
	Customer-Specific (5642)	Account-Specific (5644)		
#-####-####-###	Name Address SSN/Tax - ID number etc.	Account Balance Available Credit Current Statement Alt. Payment Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
#-####-####-###	Name Address SSN/Tax - ID number etc.	Account Balance Available Credit Current Statement Alt. Payment Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
...	...	...	...	...
#-####-####-###	Name Address SSN/Tax - ID number etc.	Account Balance Available Credit Current Statement Alt. Payment Accounts etc.	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

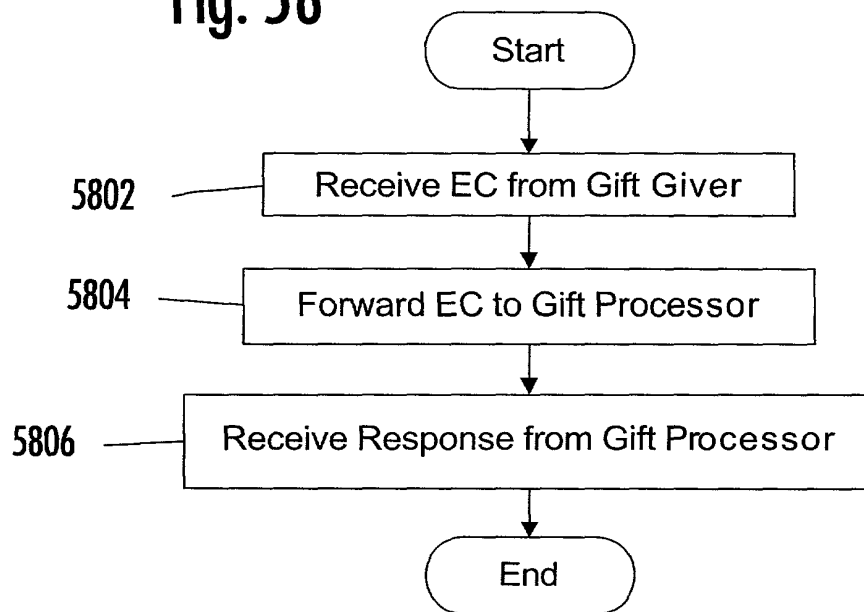
5514

Fig. 56

Fig. 57



**Fig. 58**



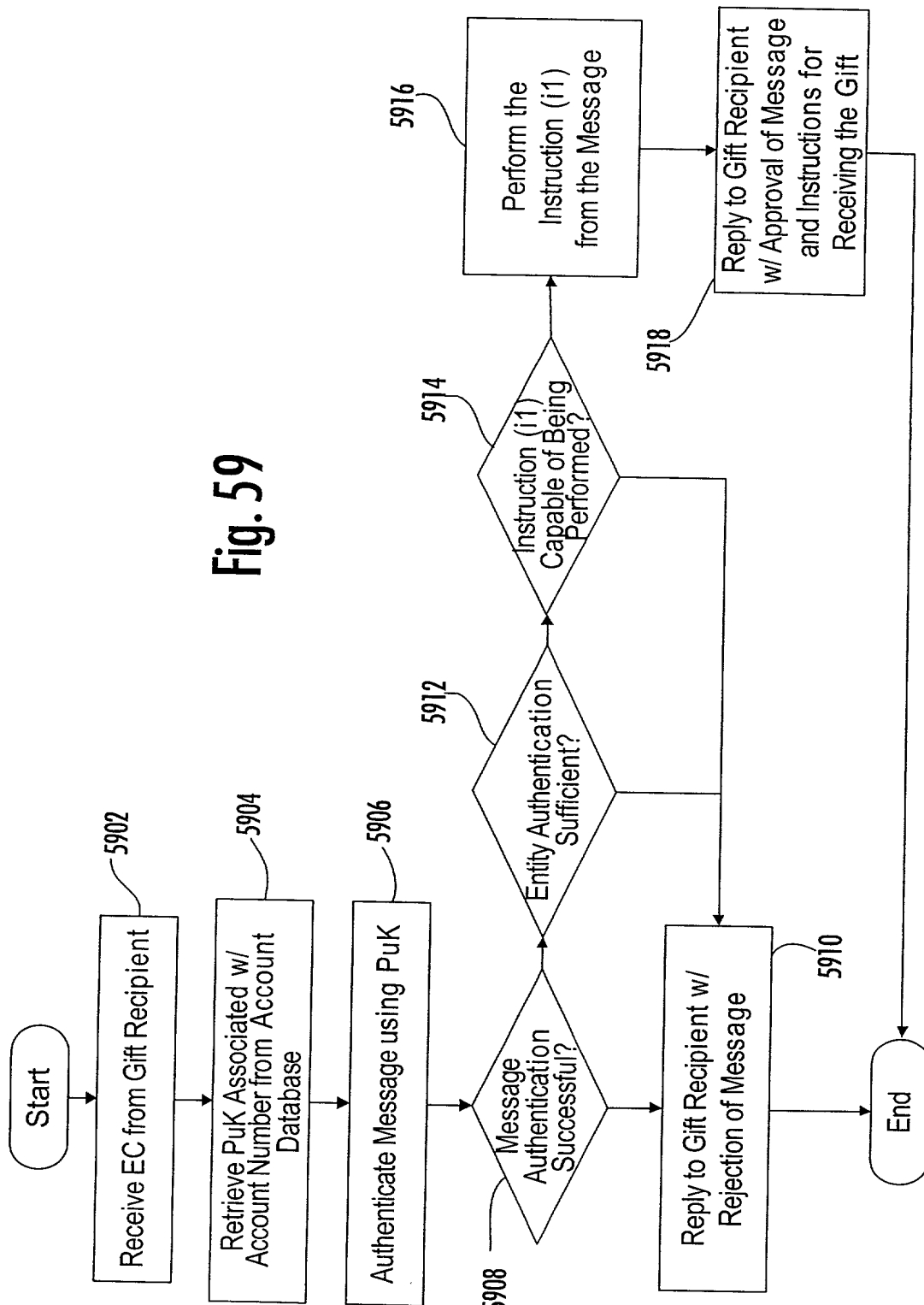
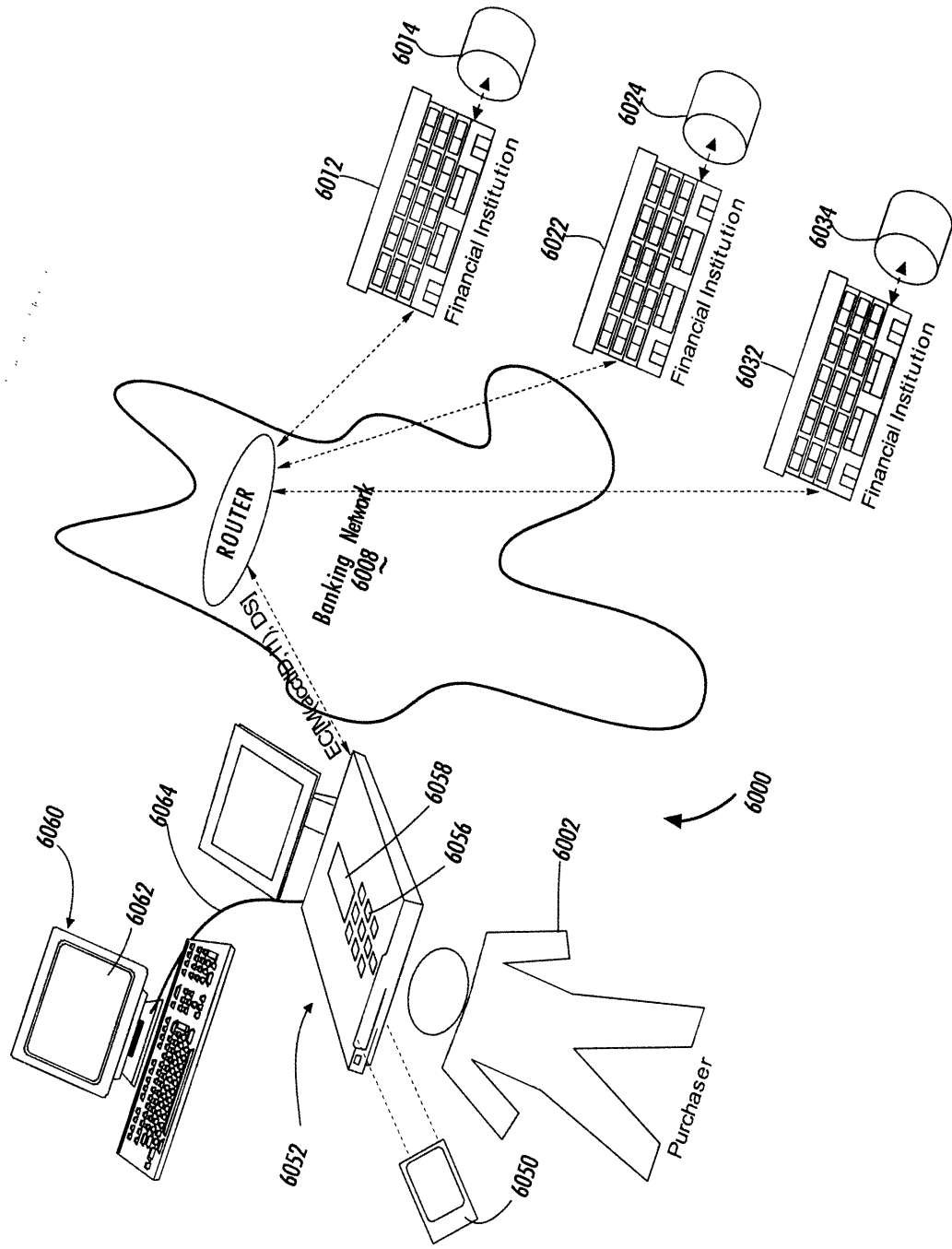


Fig. 60







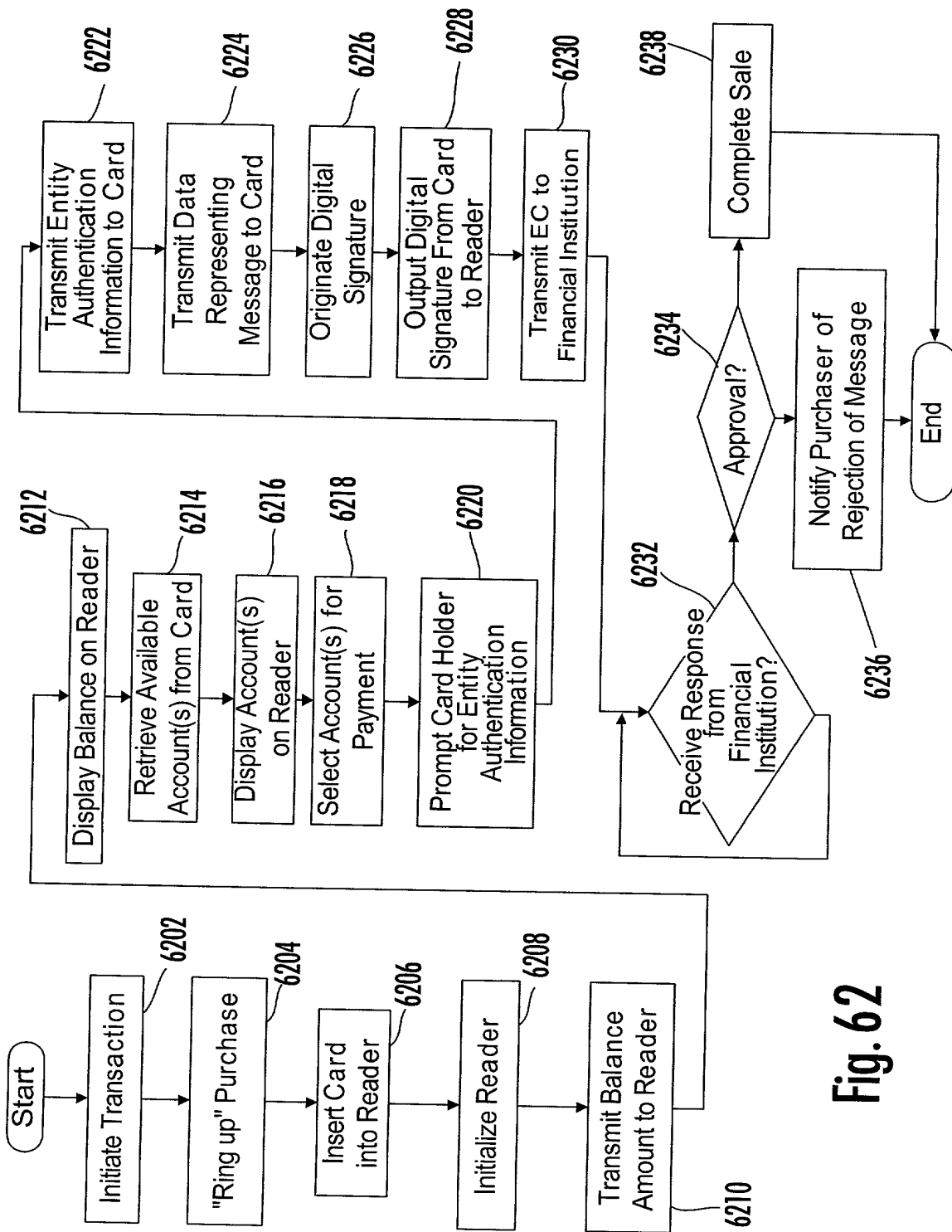
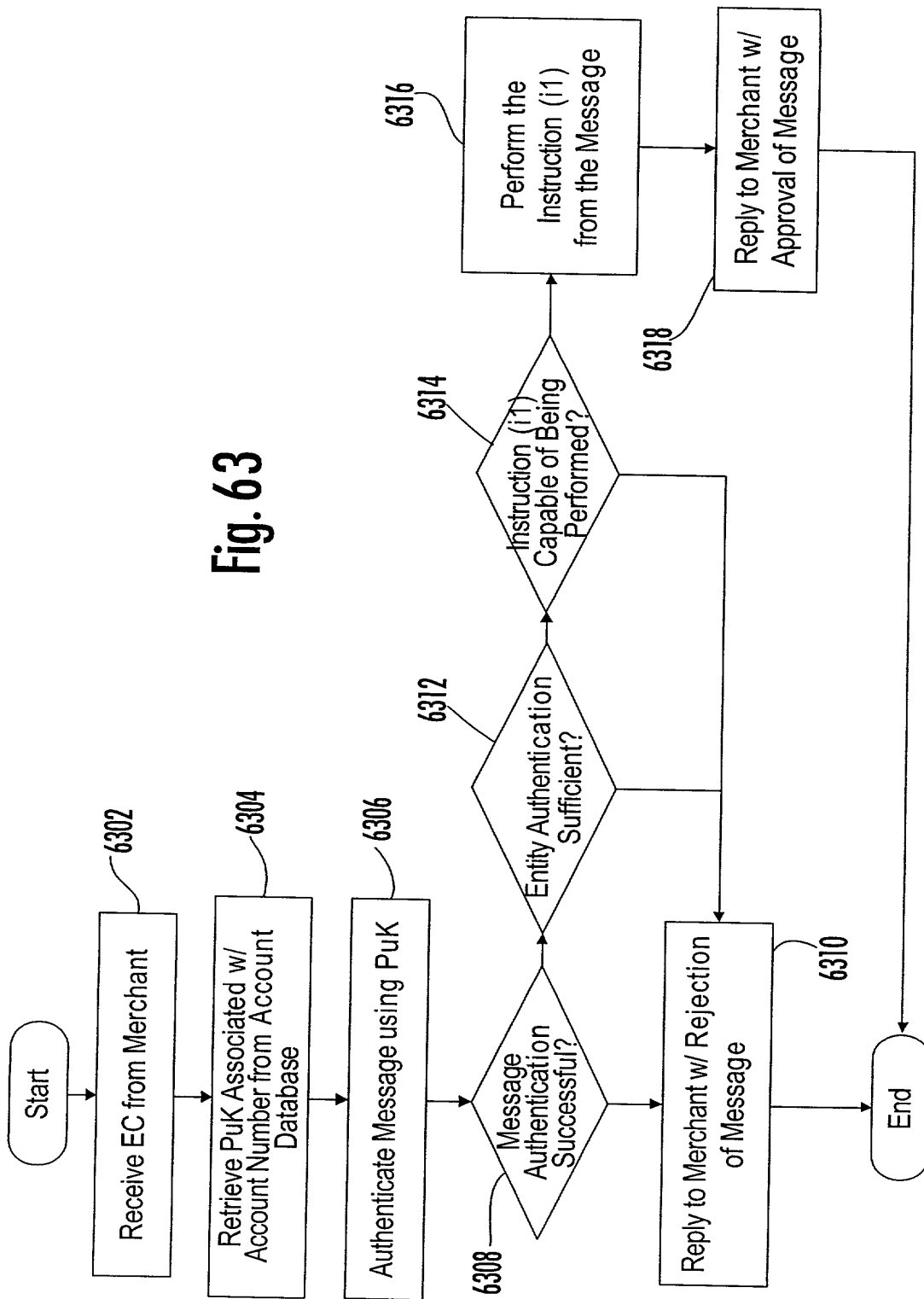


Fig. 62



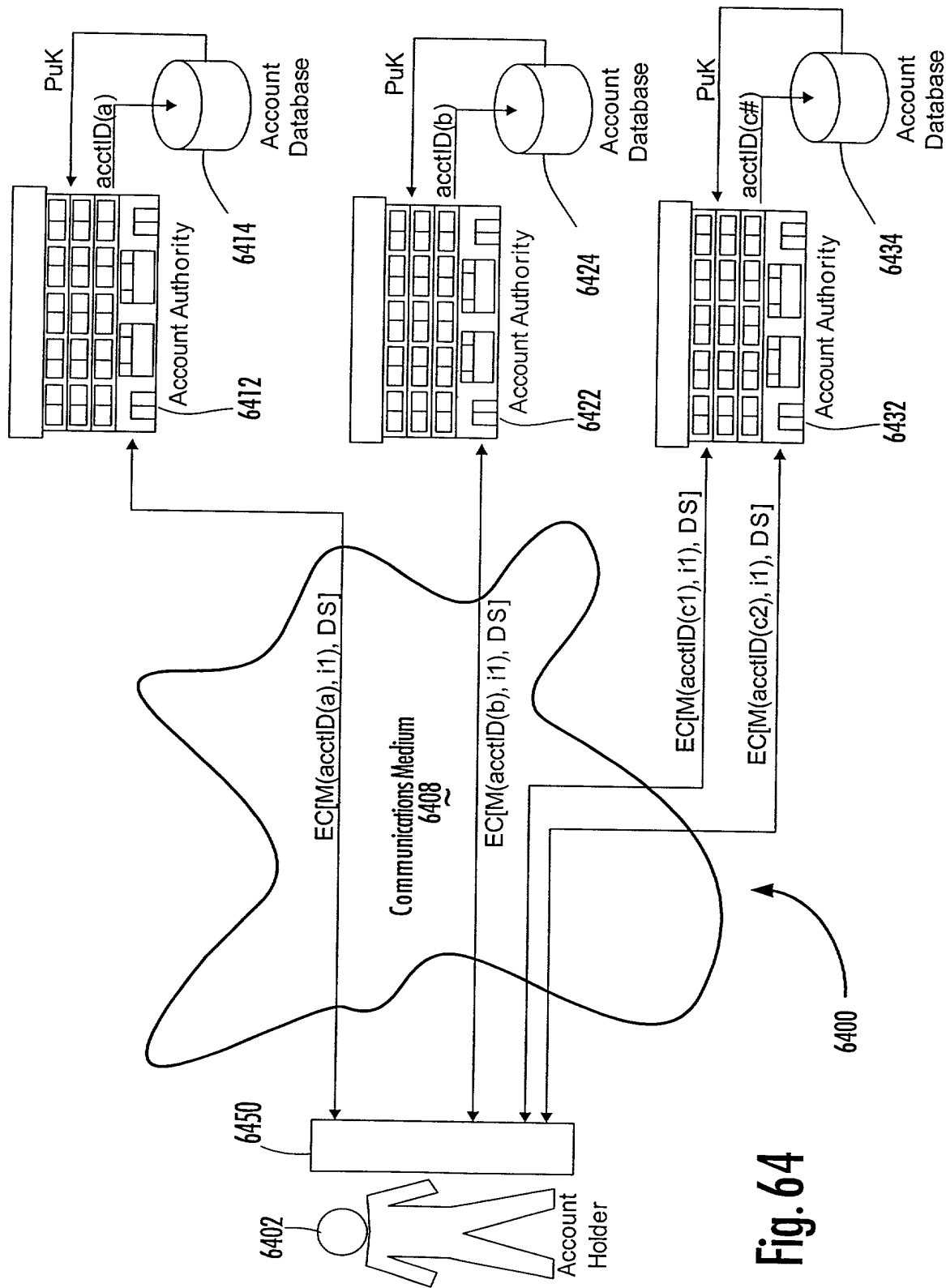


Fig. 64

<u>Account Identifier (acctID)</u> (6416)	<u>Account Information</u> (6440)	<u>Public Key</u> Information (6418)	<u>Device Profile</u> Information (6470)
acctID(a)	Customer - specific information Account - specific information	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

6414

Fig. 64a

<u>Account Identifier (acctID)</u> (6416)	<u>Account Information</u> (6440)	<u>Public Key</u> Information (6418)	<u>Device Profile</u> Information (6470)
acctID(b)	Customer - specific information Account - specific information	PuK	Security Characteristics Authentication Capabilities Manufacturing History Transactional History

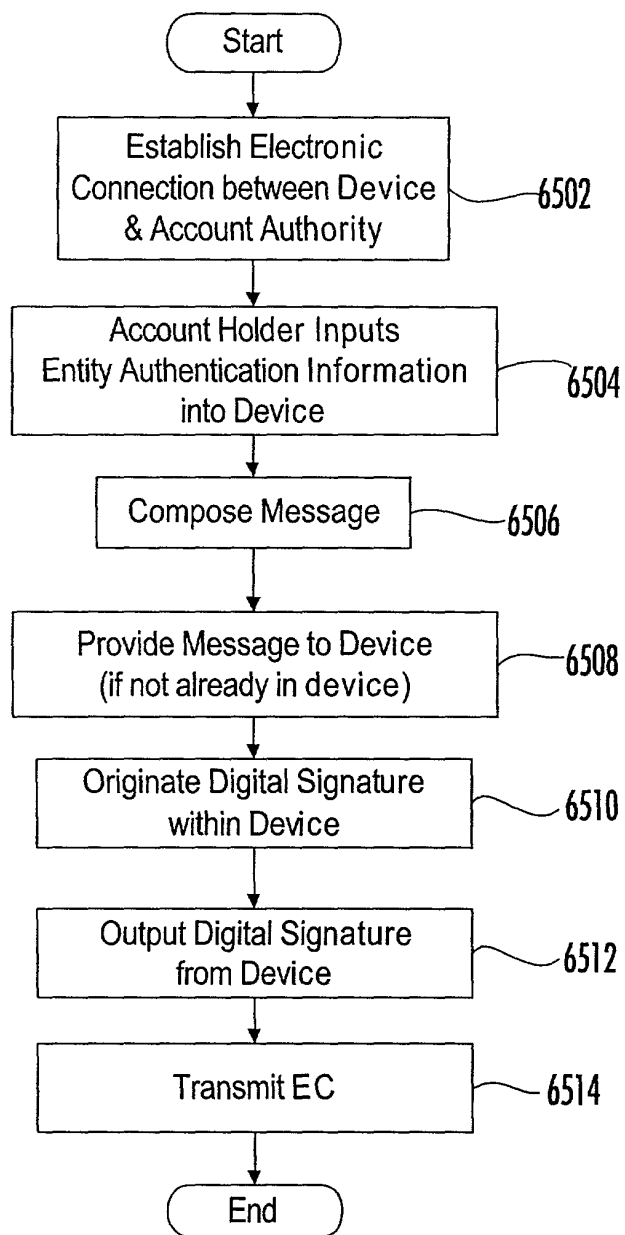
6424

Fig. 64b

Account Identifier (acctID) (6416)	Account Information (6440)	Public Key Information (6418)	Device Profile Information (6470)
acctID(c1)	Account-specific information	Customer-specific information	Security Characteristics Authentication Capabilities Manufacturing History Transactional History
acctID(c2)	Account-specific information		

6434

Fig. 64c



**Fig. 65**

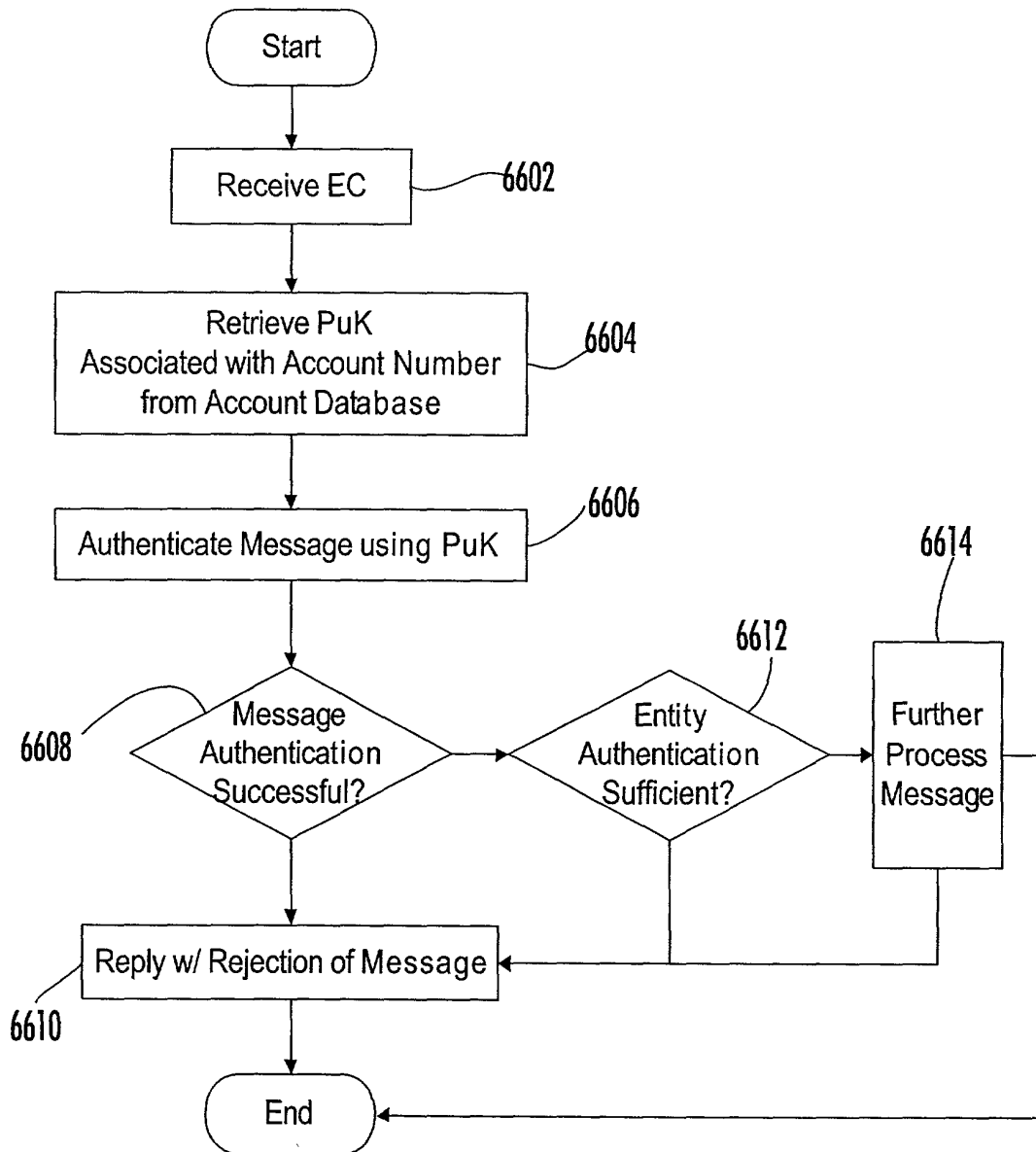
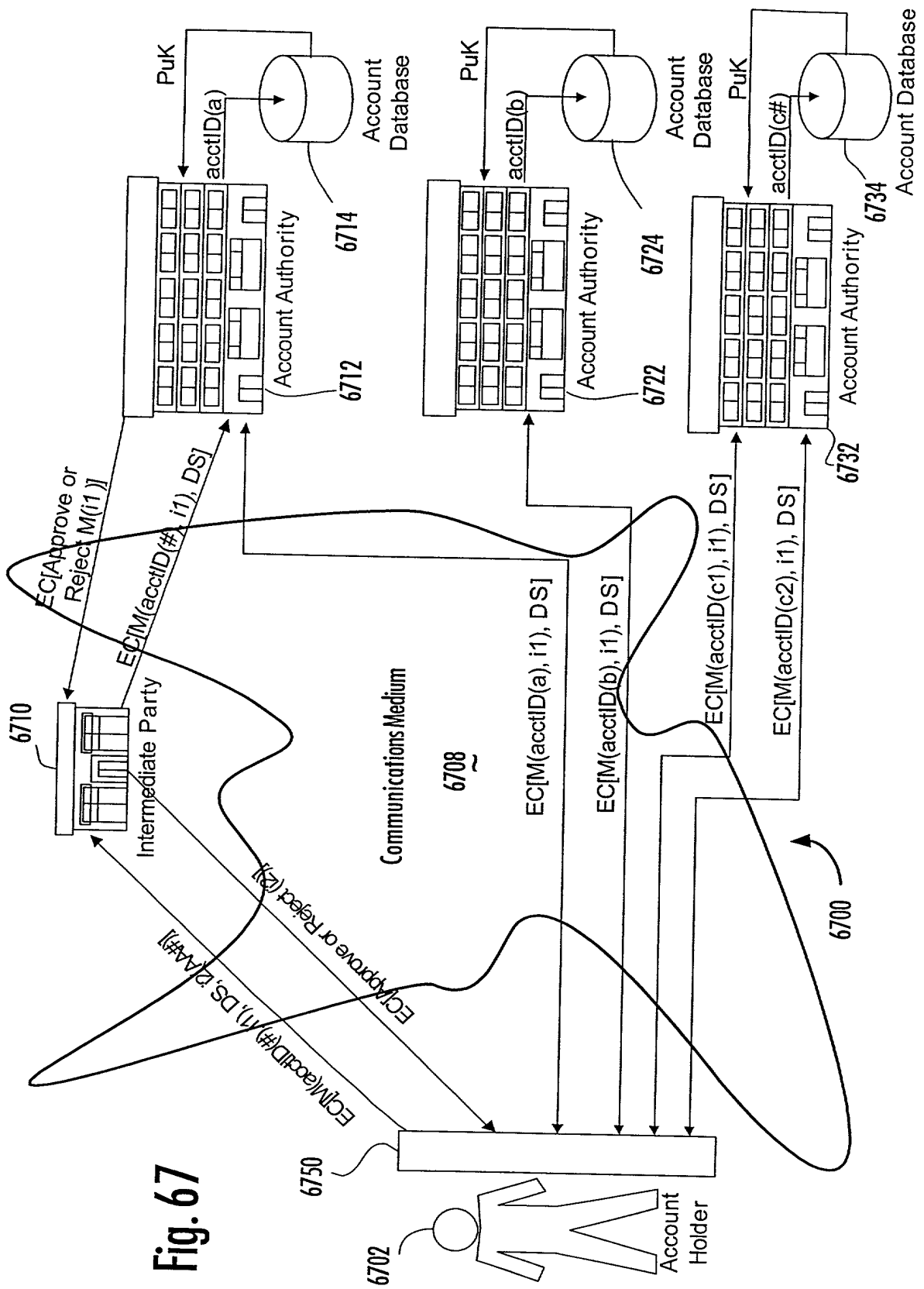
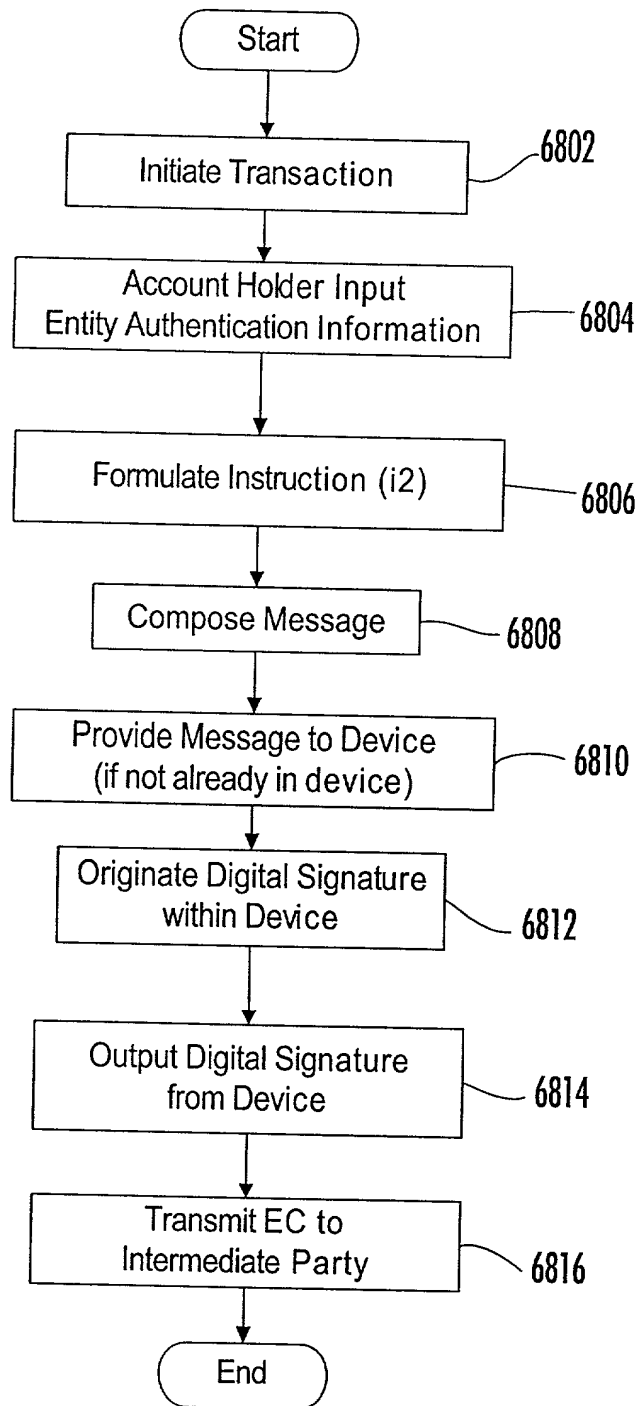


Fig. 66







**Fig. 68**

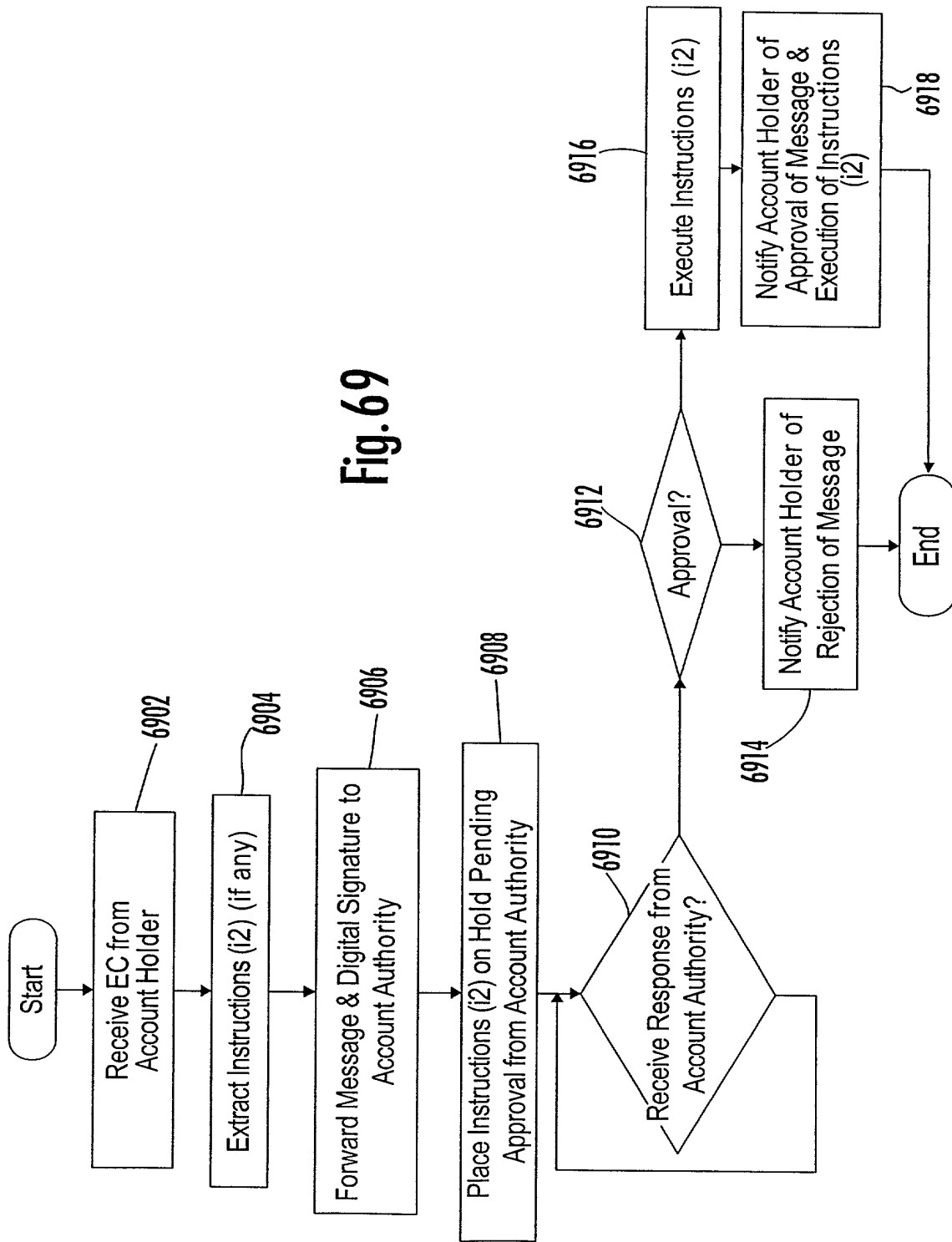
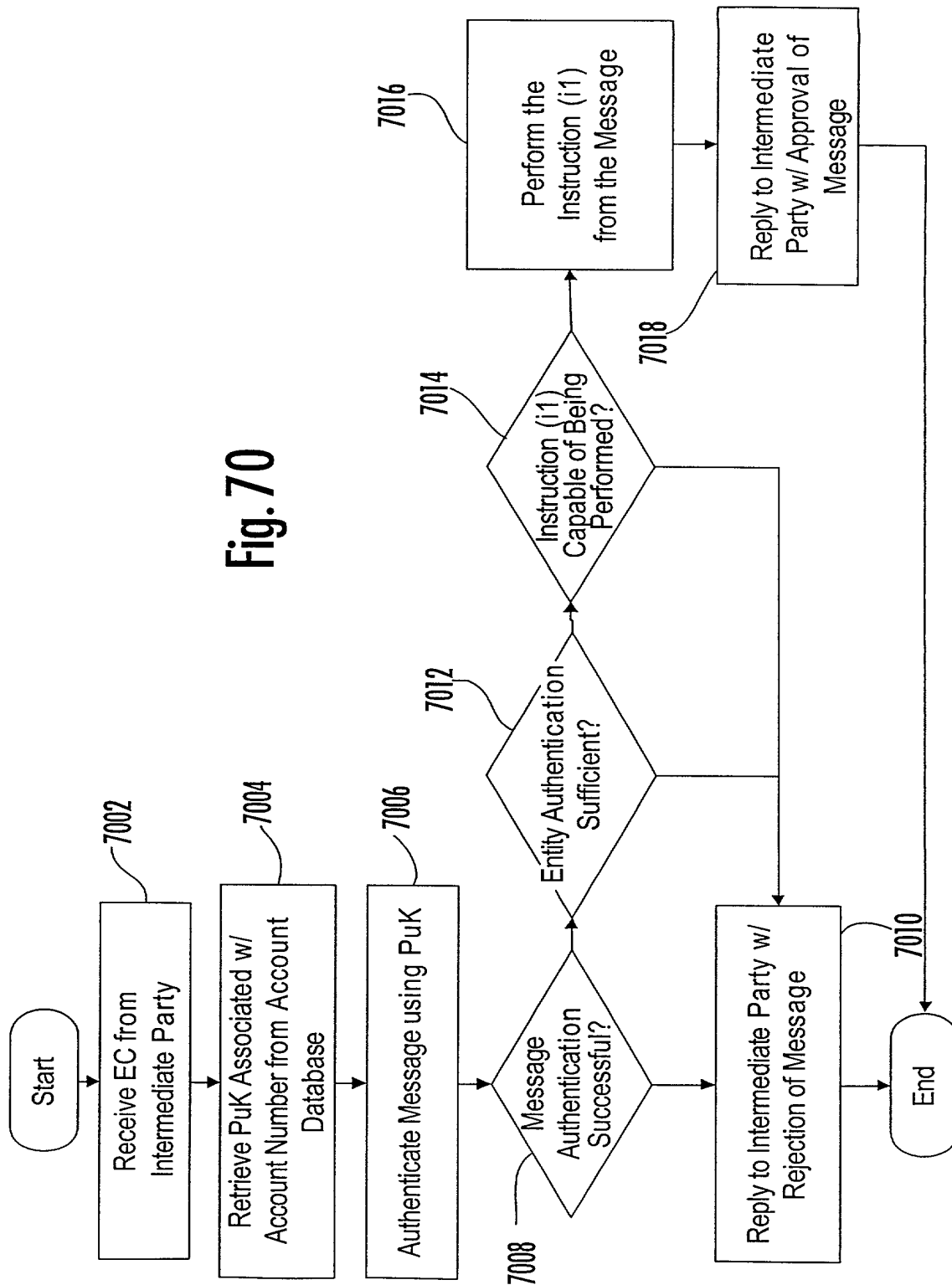
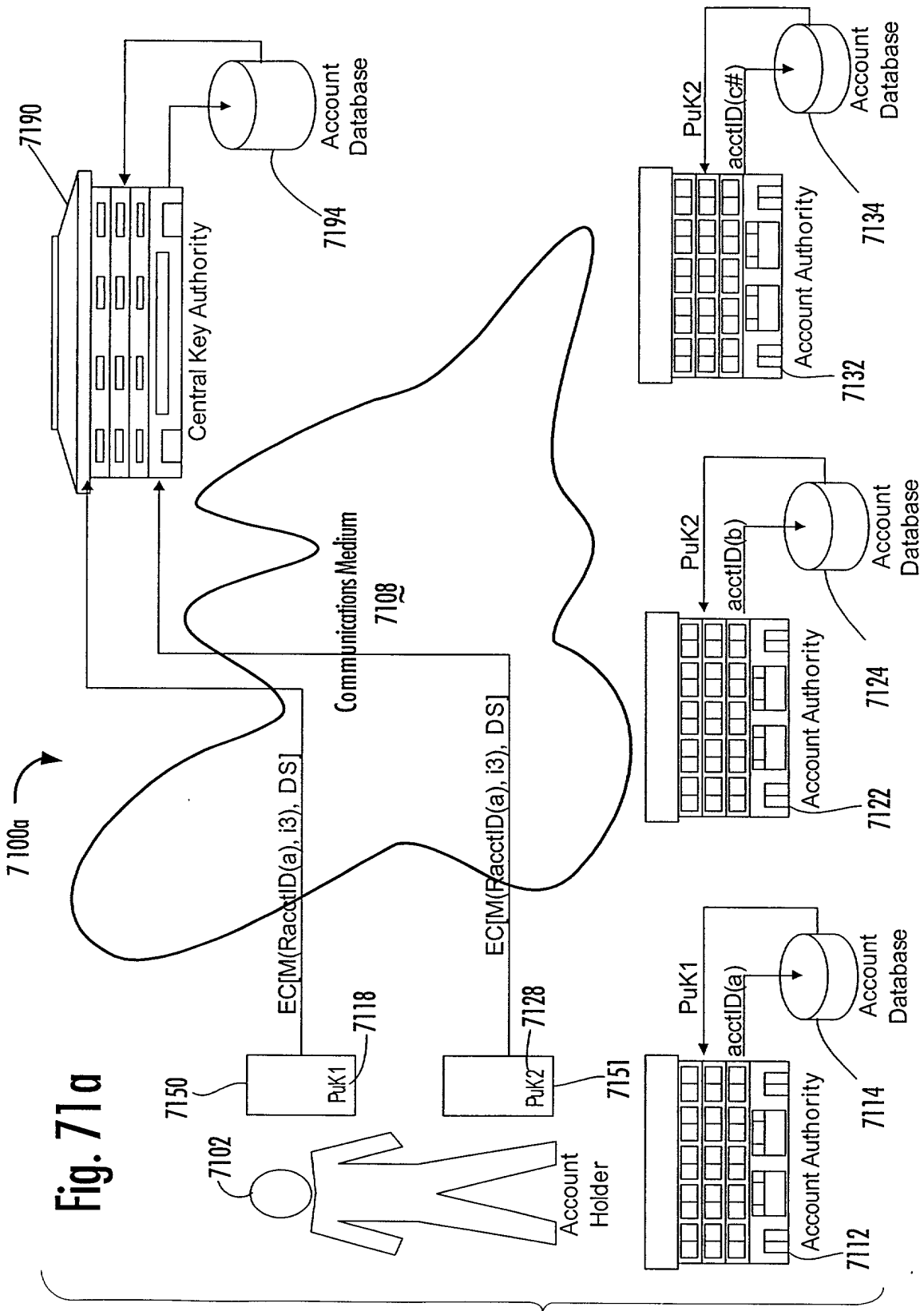
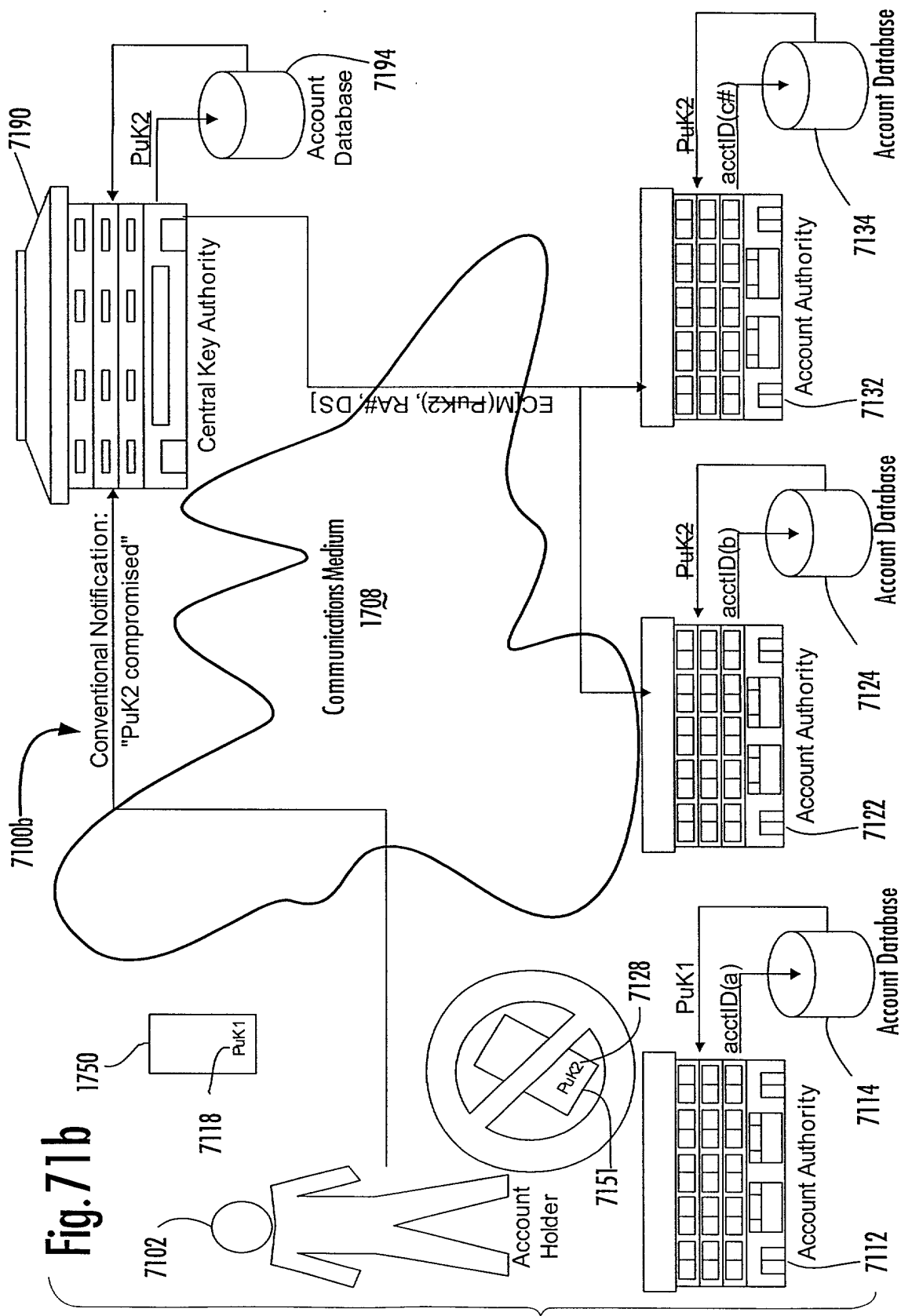
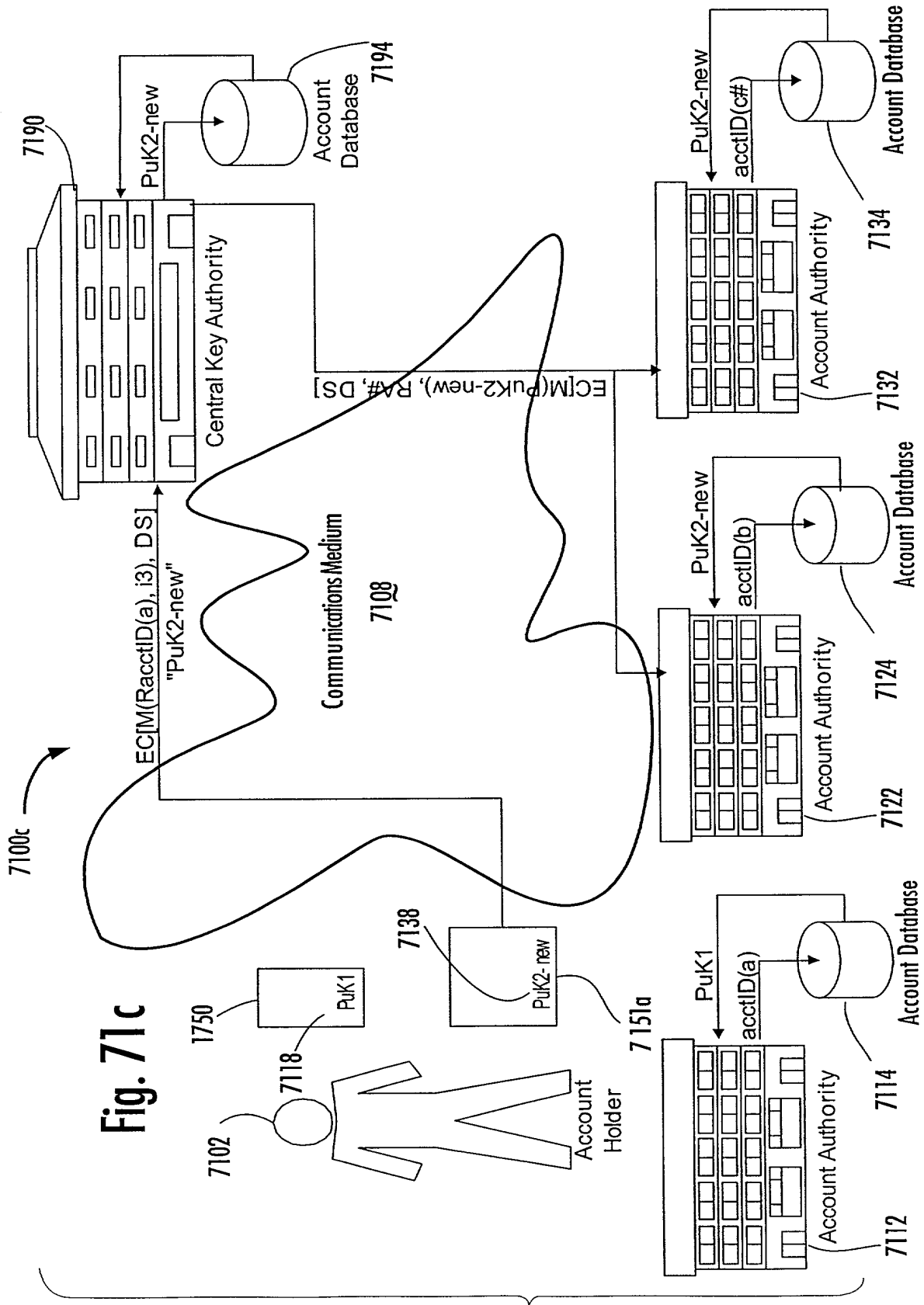


Fig. 69









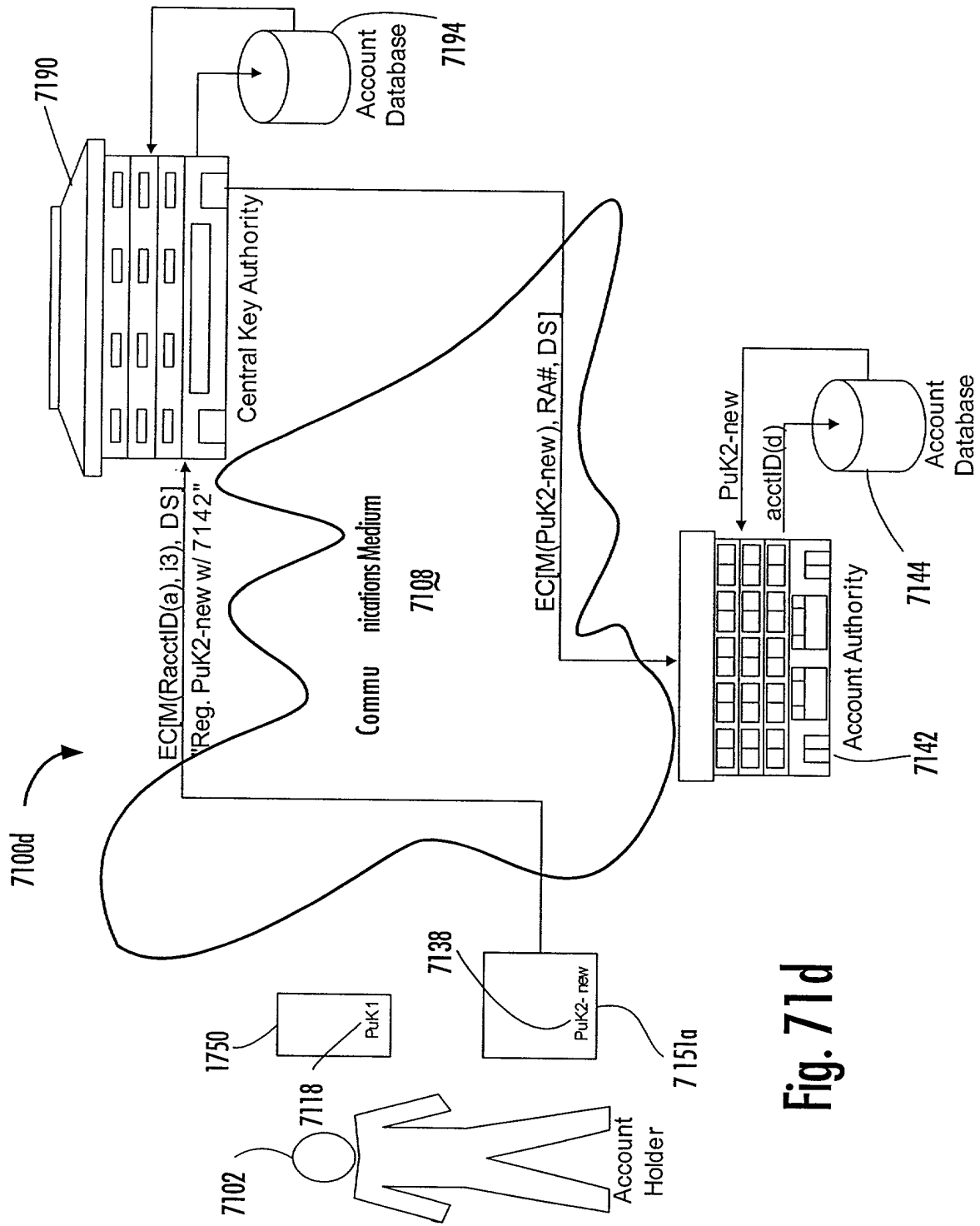
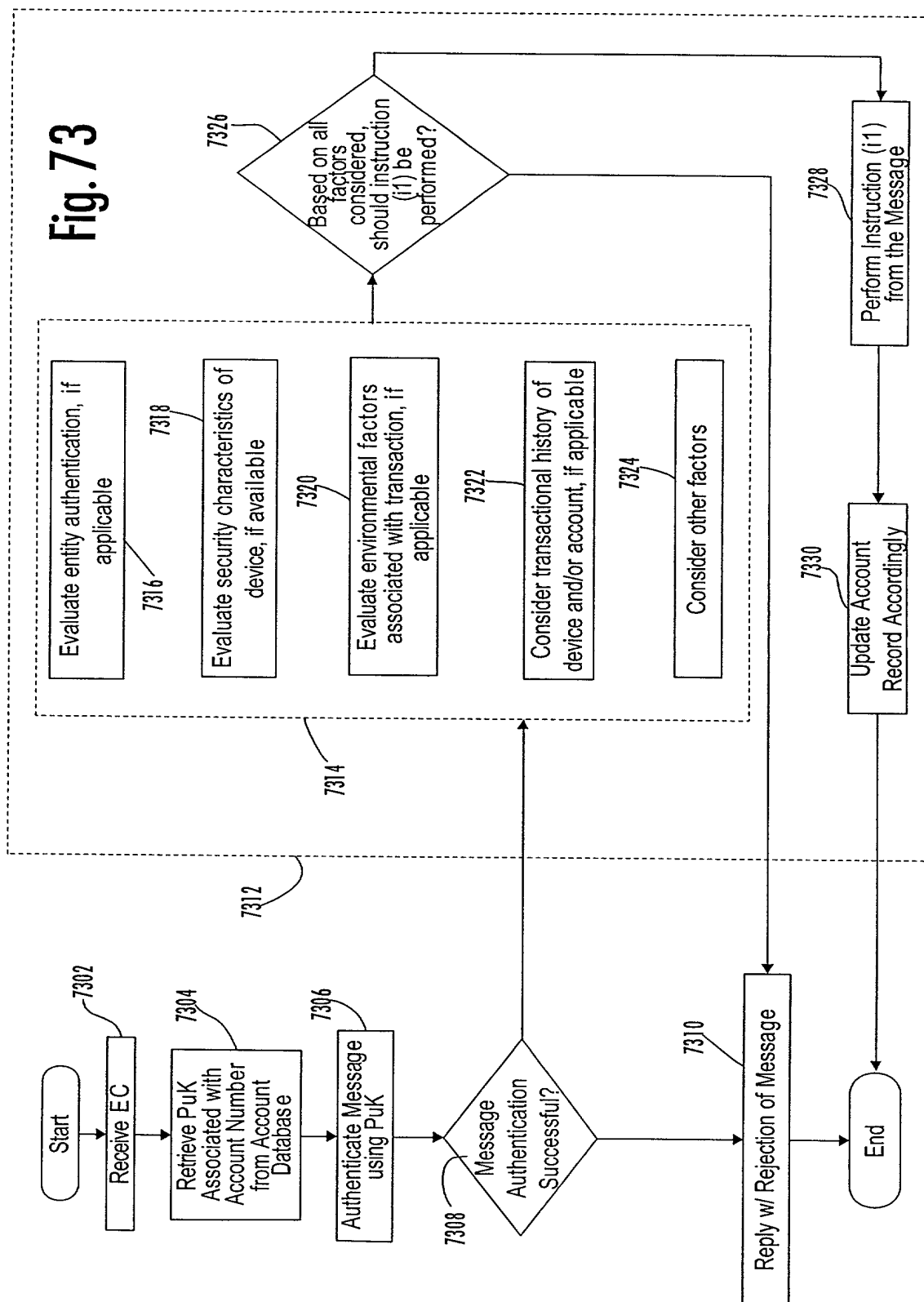


Fig. 71d



Req. Acct ID (7230)	Customer -Specific Information (7242)	Public Key Information (7218)	Device Profile Information (7270)	Account-Specific Information (7244)
RacctID(a)	Name SSN/Tax - ID number Address Credit Card Info etc.	PuK1	Security Characteristics Authentication Capabilities Manufacturing History Transactional History	Account Authority/Unique AcctID/Address/Type (empty)
		PuK2	Security Characteristics Authentication Capabilities Manufacturing History Transactional History	Account Authority/Unique AcctID/Address/Type Account Authority/Unique AcctID/Address/Type
RacctID(b)	Name SSN/Tax - ID number Address Credit Card Info etc.	PuK3	Security Characteristics Authentication Capabilities Manufacturing History Transactional History	Account Authority/Unique AcctID/Address/Type
				...
				Account Authority/Unique AcctID/Address/Type
		...		...
RacctID(n)	Name SSN/Tax - ID number Address Credit Card Info etc.	PuKn1	Security Characteristics Authentication Capabilities Manufacturing History Transactional History	Account Authority/Unique AcctID/Address/Type
		PuKn2	Security Characteristics Authentication Capabilities Manufacturing History Transactional History	Account Authority/Unique AcctID/Address/Type
				...
				Account Authority/Unique AcctID/Address/Type

Fig. 72



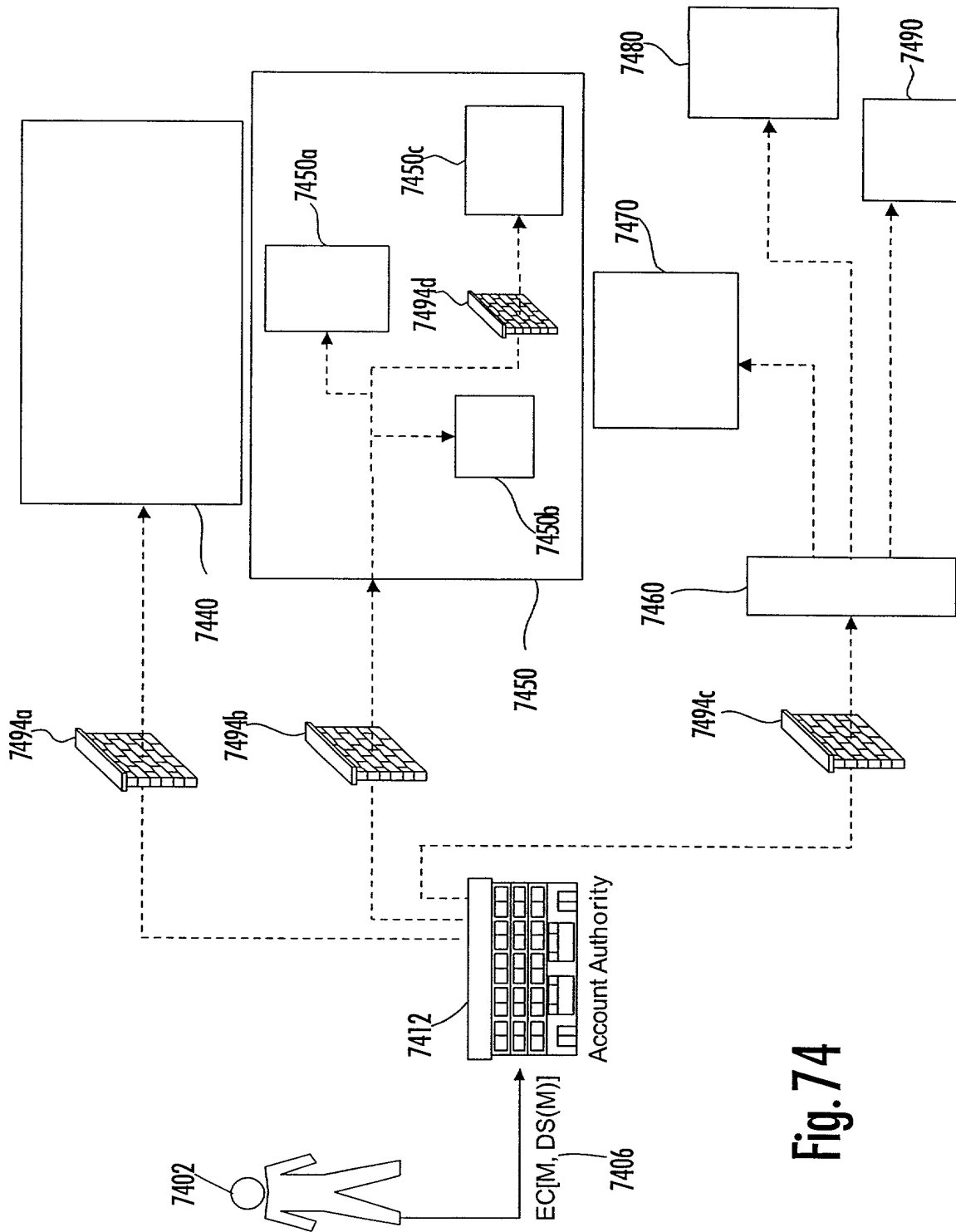


Fig. 74

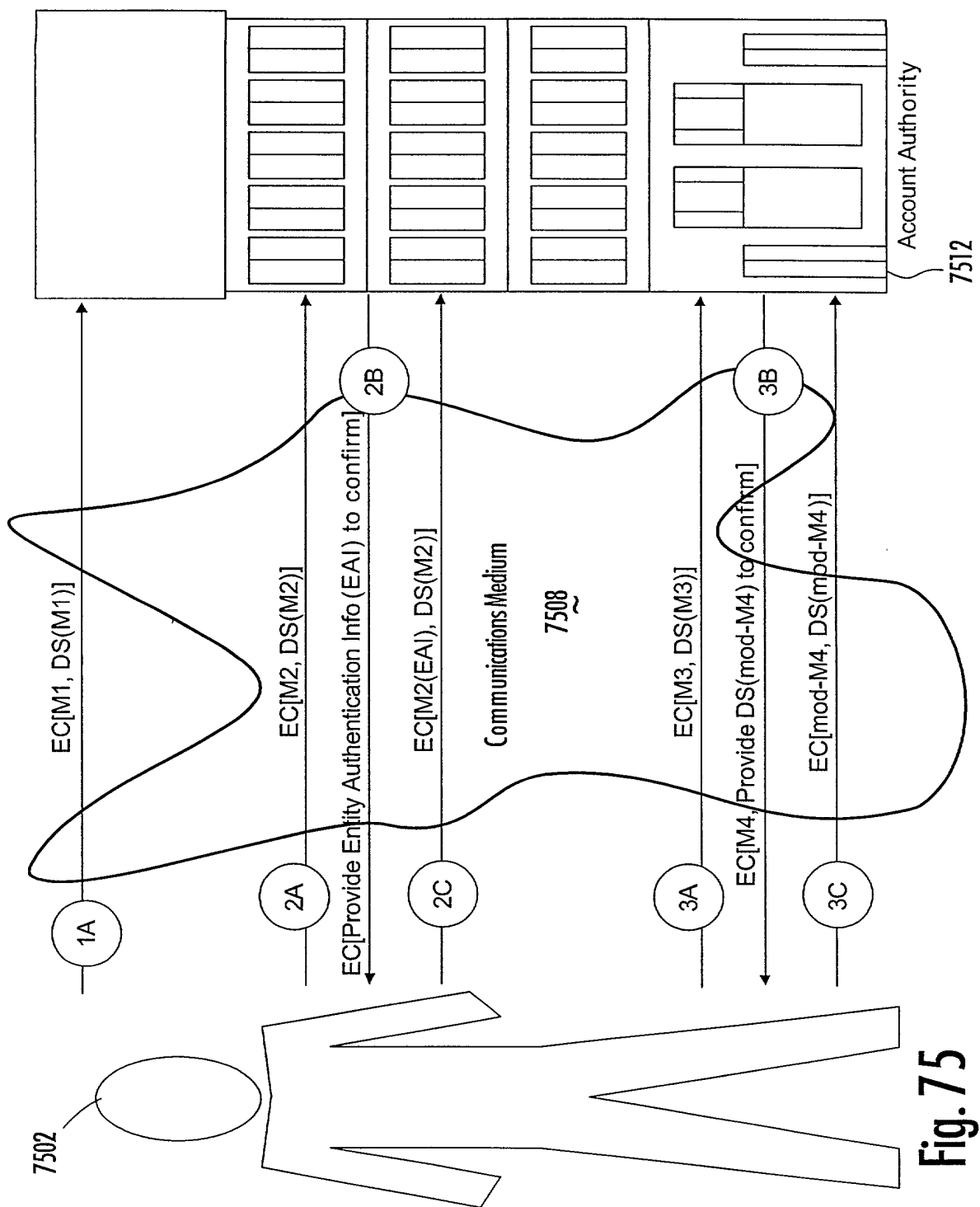


Fig. 75

7601

Fig. 76

